

NEWFIELD



October 8, 2004

State of Utah  
Division of Oil, Gas & Mining  
Attn: Diana Whitney  
1594 West North Temple - Suite 1210  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Applications for Permit to Drill:  
Jonah Federal 9-15-9-16  
Jonah Federal 11-14-9-16  
Jonah Federal 12-14-9-16

Dear Diana:

Enclosed find APD's on the above referenced wells. The 9-14-9-16 is an Exception Location. I have contacted our Land Department in the Denver office and they will be providing you with the appropriate Exception Location Letter. If you have any questions, feel free to give either Brad or myself a call.

Sincerely,

Lana Nebeker  
Production Clerk

enclosures

RECEIVED

OCT 12 2004

DIV. OF OIL, GAS & MINING

001

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

5. Lease Serial No.

UTU-096547

6. If Indian, Allottee or Tribe Name

N/A

7. If Unit or CA Agreement, Name and No.

JONAH

8. Lease Name and Well No.

Jonah Federal 12-14-9-16

9. API Well No.

43-013-32682

10. Field and Pool, or Exploratory

Monument Butte

11. Sec., T., R., M., or Blk. and Survey or Area

NW/SW Sec. 14, T9S R16E

12. County or Parish

Duchesne

13. State

UT

1a. Type of Work: ☒ DRILL☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other☒ Single Zone ☐ Multiple Zone

2. Name of Operator

Newfield Production Company

3a. Address

Route #3 Box 3630, Myton UT 84052

3b. Phone No. (include area code)

(435) 646-3721

4. Location of Well (Report location clearly and in accordance with any State requirements. \*)

At surface NW/SW 1816' FSL 575' FWL 577364X 40.028534

At proposed prod. zone 4431108Y -110.093325

14. Distance in miles and direction from nearest town or post office\*

Approximatley 20.5 miles south of Myton, Utah

15. Distance from proposed\*

location to nearest

property or lease line, ft.

(Also to nearest drig. unit line, if any) Approx. 1816' f/le, 1816' f/unit

16. No. of Acres in lease

600.00

17. Spacing Unit dedicated to this well

40 Acres

18. Distance from proposed location\*

to nearest well, drilling, completed,

applied for, on this lease, ft.

Approx. 1,585'

19. Proposed Depth

6060'

20. BLM/BIA Bond No. on file

UTU0056

21. Elevations (Show whether DF, KDB, RT, GL, etc.)

5682.4' GL

22. Approximate date work will start\*

1st Quarter 2005

23. Estimated duration

Approximately seven (7) days from spud to rig release.

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.

2. A Drilling Plan.

3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).

4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).

5. Operator certification.

6. Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature

Name (Printed/Typed)

Lana Nebeker

Date

10-8-04

Title

Production Clerk

Approved by (Signature)

Name (Printed/Typed)

BRADLEY G. HILL

Date

10-18-04

Title

Office

ENVIRONMENTAL SCIENTIST III

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

Federal Approval of this  
Action is Necessary

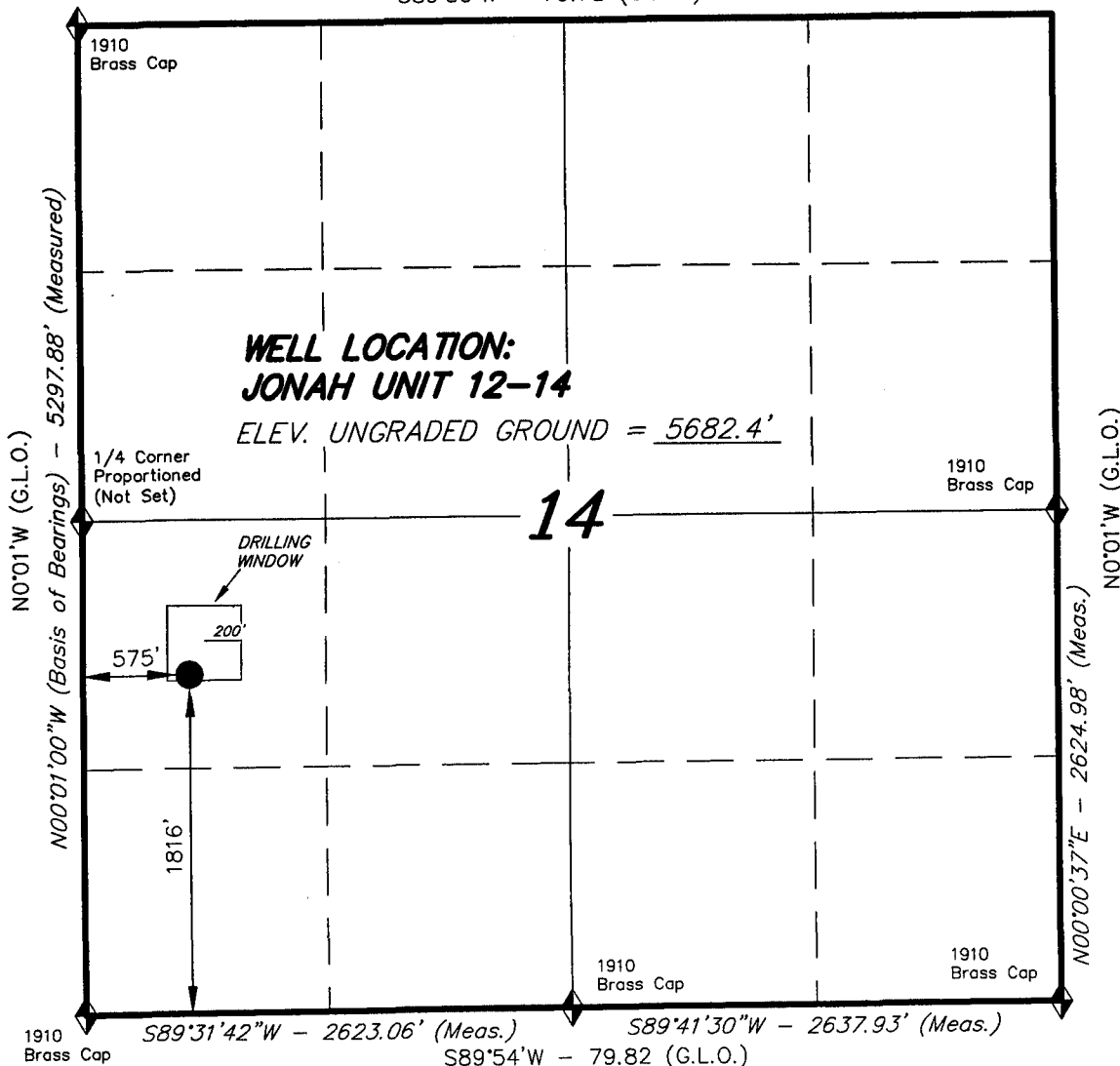
RECEIVED

OCT 12 2004

DIV. OF OIL, GAS &amp; MINING

**T9S, R16E, S.L.B.&M.**

S89°59'W - 79.78 (G.L.O.)

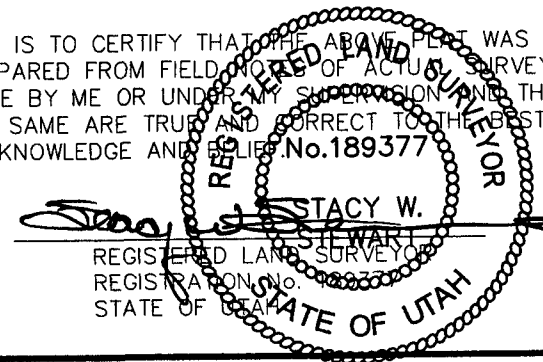


**INLAND PRODUCTION COMPANY**

WELL LOCATION, JONAH UNIT 12-14,  
LOCATED AS SHOWN IN THE NW 1/4 SW  
1/4 OF SECTION 14, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**  
180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

SCALE: 1" = 1000'

SURVEYED BY: D.J.S.

DATE: 7-6-04

DRAFTED BY: F.T.M.

NOTES:

FILE #

◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

NEWFIELD PRODUCTION COMPANY  
JONAH FEDERAL 12-14-9-16  
NW/SW SECTION 14, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. GEOLOGIC SURFACE FORMATION:

Uinta formation of Upper Eocene Age

2. ESTIMATED TOPS OF IMPORTANT GEOLOGIC MARKERS:

|             |            |
|-------------|------------|
| Uinta       | 0' – 1640' |
| Green River | 2190'      |
| Wasatch     | 6060'      |

3. ESTIMATED DEPTHS OF ANTICIPATED WATER, OIL, GAS OR MINERALS:

Green River Formation 2190' – 6060' - Oil

4. PROPOSED CASING PROGRAM

Please refer to the Monument Butte Field Standard Operation Procedure (SOP).

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

Please refer to the Monument Butte Field SOP. See Exhibit "C".

6. TYPE AND CHARACTERISTICS OF THE PROPOSED CIRCULATION MUDS:

Please refer to the Monument Butte Field SOP.

7. AUXILIARY SAFETY EQUIPMENT TO BE USED:

Please refer to the Monument Butte Field SOP.

8. TESTING, LOGGING AND CORING PROGRAMS:

Please refer to the Monument Butte Field SOP.

9. ANTICIPATED ABNORMAL PRESSURE OR TEMPERATURE:

The anticipated maximum bottom hole pressure is 1800 psi. It is not anticipated that abnormal temperatures will be encountered.

10. ANTICIPATED STARTING DATE AND DURATION OF THE OPERATIONS:

Please refer to the Monument Butte Field SOP.



NEWFIELD PRODUCTION COMPANY  
JONAH FEDERAL #12-14-9-16  
NW/SW SECTION 14, T9S, R16E  
DUCHESNE COUNTY, UTAH

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. EXISTING ROADS

See attached Topographic Map "A"

To reach Newfield Production Company well location site Jonah Federal #12-14-9-16 located in the NW 1/4 SW 1/4 Section 14, T9S, R16E, Duchesne County, Utah:

Proceed southwesterly out of Myton, Utah along Highway 40 - 1.6 miles  $\pm$  to the junction of this highway and UT State Hwy 53; proceed southwesterly along Hwy 53 - 10.9 miles  $\pm$  to it's junction with an existing dirt road to the northeast; proceed northeasterly - 7.0 miles  $\pm$  to it's junction with an existing road to the southeast; proceed easterly - 0.2 miles  $\pm$  to it's junction with the beginning of the proposed access road; proceed south along the proposed access road - 1,760'  $\pm$  to the proposed well location.

2. PLANNED ACCESS ROAD

See Topographic Map "B" for the location of the proposed access road.

3. LOCATION OF EXISTING WELLS

Refer to Exhibit "B".

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES

Please refer to the Monument Butte Field Standard Operating Procedure (SOP).

5. LOCATION AND TYPE OF WATER SUPPLY

Please refer to the Monument Butte Field SOP. See Exhibit "A".

6. SOURCE OF CONSTRUCTION MATERIALS

Please refer to the Monument Butte Field SOP.

7. METHODS FOR HANDLING WASTE DISPOSAL

Please refer to the Monument Butte Field SOP.

8. ANCILLARY FACILITIES

Please refer to the Monument Butte Field SOP.

9. **WELL SITE LAYOUT**

See attached Location Layout Diagram.

10. **PLANS FOR RESTORATION OF SURFACE**

Please refer to the Monument Butte Field SOP.

11. **SURFACE OWNERSHIP** - Bureau Of Land Management

12. **OTHER ADDITIONAL INFORMATION**

The Archaeological Resource Survey and Paleontological Resource Survey for this area are attached. MOAC Report #04-94, 06/02/04. Paleontological Resource Survey prepared by, Alden H. Hamblin, 10/10/93. See attached report cover pages, Exhibit "D".

For the Jonah Federal #12-14-9-16 Newfield Production Company requests a 1760' of disturbed area be granted in Lease UTU-096547 to allow for construction of the proposed access road. **Refer to Topographic Map "B"**. The proposed access road will be an 18' crown road (9' either side of the centerline) with drainage ditches along either side of the proposed road whether it is deemed necessary in order to handle any run-off from normal meteorological conditions that are prevalent to this area. The maximum grade will be less than 8%. There will be no culverts required along this access road. There will be barrow ditches and turnouts as needed along this road. There are no fences encountered along this proposed road. There will be no new gates or cattle guards required. All construction material for this access road will be borrowed material accumulated during construction of the access road.

Newfield Production Company requests a 1760' of disturbed area be granted in Lease UTU-096547 to allow for construction of the proposed gas lines. It is proposed that the ROW and disturbed area will be 50' wide to allow for construction of a 4" gas gathering line, and a 3" poly fuel gas line. Both lines will tie in to the existing pipeline infrastructure. **Refer to Topographic Map "C."** For a ROW plan of development, please refer to the Monument Butte Field SOP.

**Water Disposal**

Immediately upon first production, all produced water will be confined to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Inland's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

**Threatened, Endangered, And Other Sensitive Species**

Inactive Nest Site: Will require survey if drilled after March 2005

**Reserve Pit Liner**

A 12 mil liner with felt is required. Please refer to the Monument Butte Field SOP.

**Location and Reserve Pit Reclamation**

Please refer to the Monument Butte Field SOP.

The following seed mixture will be used on the topsoil stockpile, to the recontoured surface of the reserve pit, and for final reclamation: (All poundages are in pure live seed)

Black Sage

*Artemisia Nova*

1 lbs/acre

|                     |                        |            |
|---------------------|------------------------|------------|
| Shadscale           | Atriplex confertifolia | 5 lbs/acre |
| Green Molly Cyress  | Kochia American        | 3lbs/acre  |
| Crested Wheat Grass |                        | 3 lbs/acre |

**Details of the On-Site Inspection**

The proposed Jonah Federal #12-14-9-16 was on-sited on 3/25/04. The following were present; Brad Mecham (Newfield Production), David Gerbig (Newfield Production), Dave Loken (Newfield Production), Byron Tolman (Bureau of Land Management), and a SWCA representative. Weather conditions were clear.

**13. LESSEE'S OR OPERATORS REPRESENTATIVE AND CERTIFICATION**

Representative

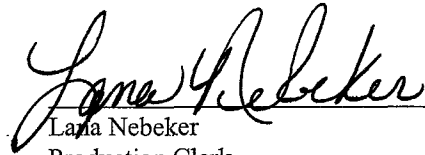
Name: Brad Mecham  
Address: Route #3 Box 3630  
Myton, UT 84052  
Telephone: (435) 646-3721

Certification

Please be advised that NEWFIELD PRODUCTION COMPANY is considered to be the operator of well #12-14-9-16 NW/SW Section 14, Township 9S, Range 16E: Lease UTU-096547 Duchesne County, Utah: and is responsible under the terms and conditions of the lease for the operations conducted upon the leased lands. Bond coverage is provided by Hartford Accident #4488944.

I hereby certify that the proposed drillsite and access route have been inspected, and I am familiar with the conditions which currently exist; that the statements made in this plan are true and correct to the best of my knowledge; and that the work associated with the operations proposed here will be performed by Newfield Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

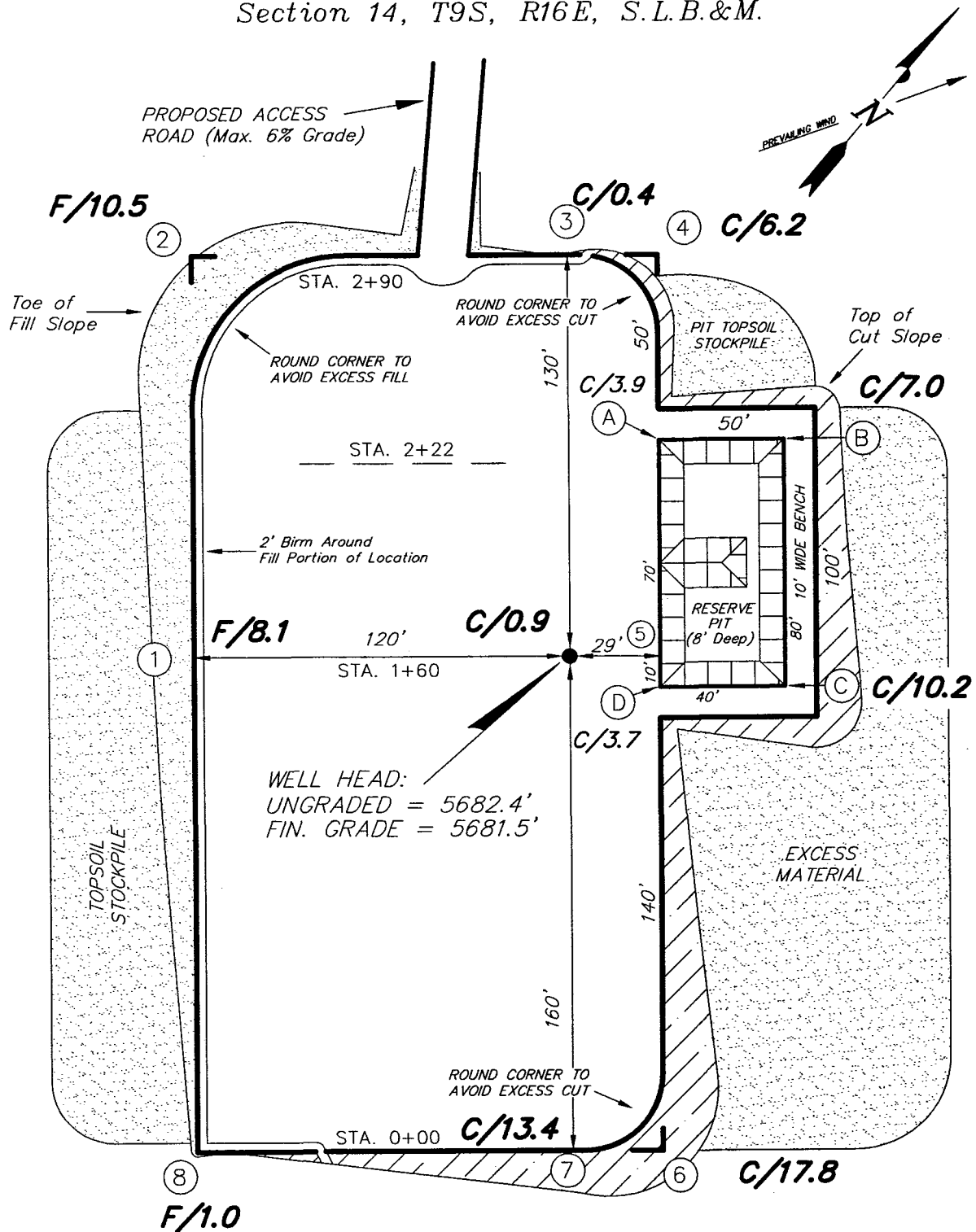
10-8-04  
Date

  
Lana Nebeker  
Production Clerk

# INLAND PRODUCTION COMPANY

## JONAH UNIT 12-14

Section 14, T9S, R16E, S.L.B.&M.



### REFERENCE POINTS

210' SOUTHEAST = 5702.1'  
 253' SOUTHEAST = 5715.0'  
 170' SOUTHWEST = 5670.5'  
 220' SOUTHWEST = 5667.7'

SURVEYED BY: D.J.S.

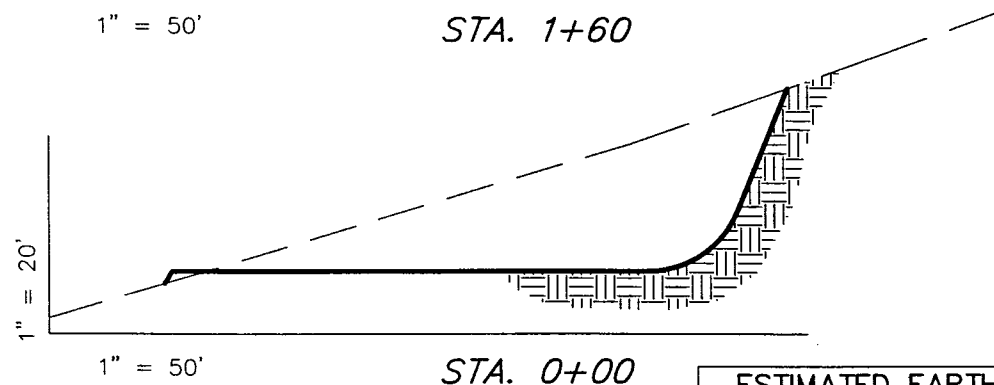
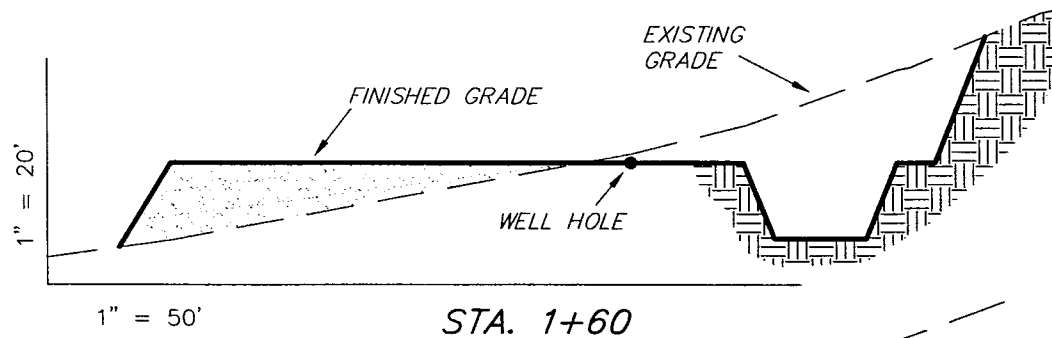
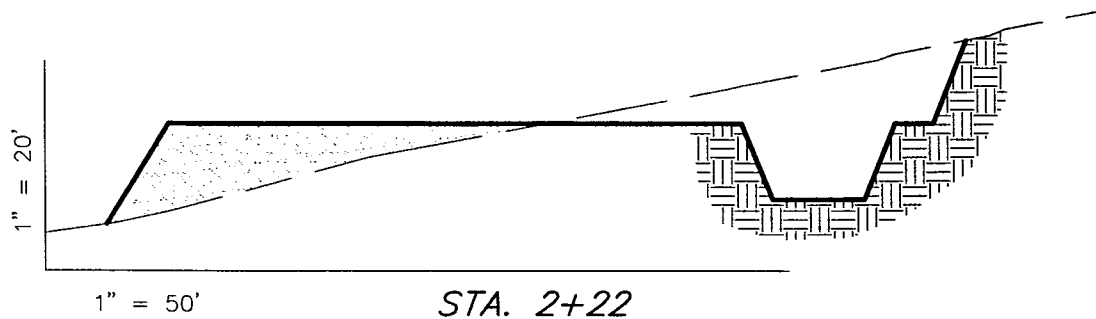
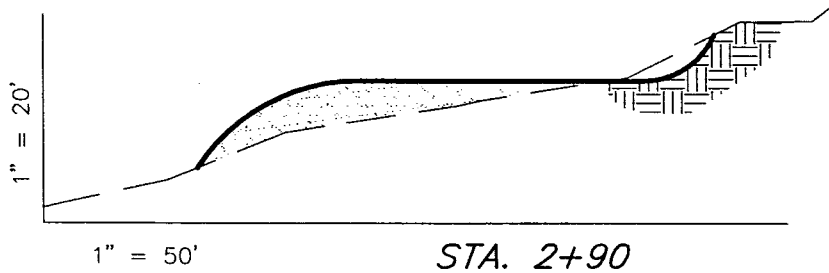
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 7-6-04

**Tri State**  
 Land Surveying, Inc.  
 180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
 (435) 781-2501

**INLAND PRODUCTION COMPANY**  
**CROSS SECTIONS**  
**JONAH UNIT 12-14**



NOTE:  
UNLESS OTHERWISE NOTED  
CUT SLOPES ARE AT 1:1  
FILL SLOPES ARE AT 1.5:1

| ESTIMATED EARTHWORK QUANTITIES<br>(No Shrink or swell adjustments have been used)<br>(Expressed in Cubic Yards) |       |       |  |        |
|---|-------|-------|--|--------|
| ITEM  | CUT   | FILL  | 6" TOPSOIL                               | EXCESS |
| PAD   | 5,530 | 3,800 | Topsoil is<br>not included<br>in Pad Cut | 1,730  |
| PIT   | 640   | 0     |  | 640    |
| TOTALS  | 6,170 | 3,800 | 890                                      | 2,370  |

SURVEYED BY: D.J.S.

SCALE: 1" = 50'

DRAWN BY: F.T.M.

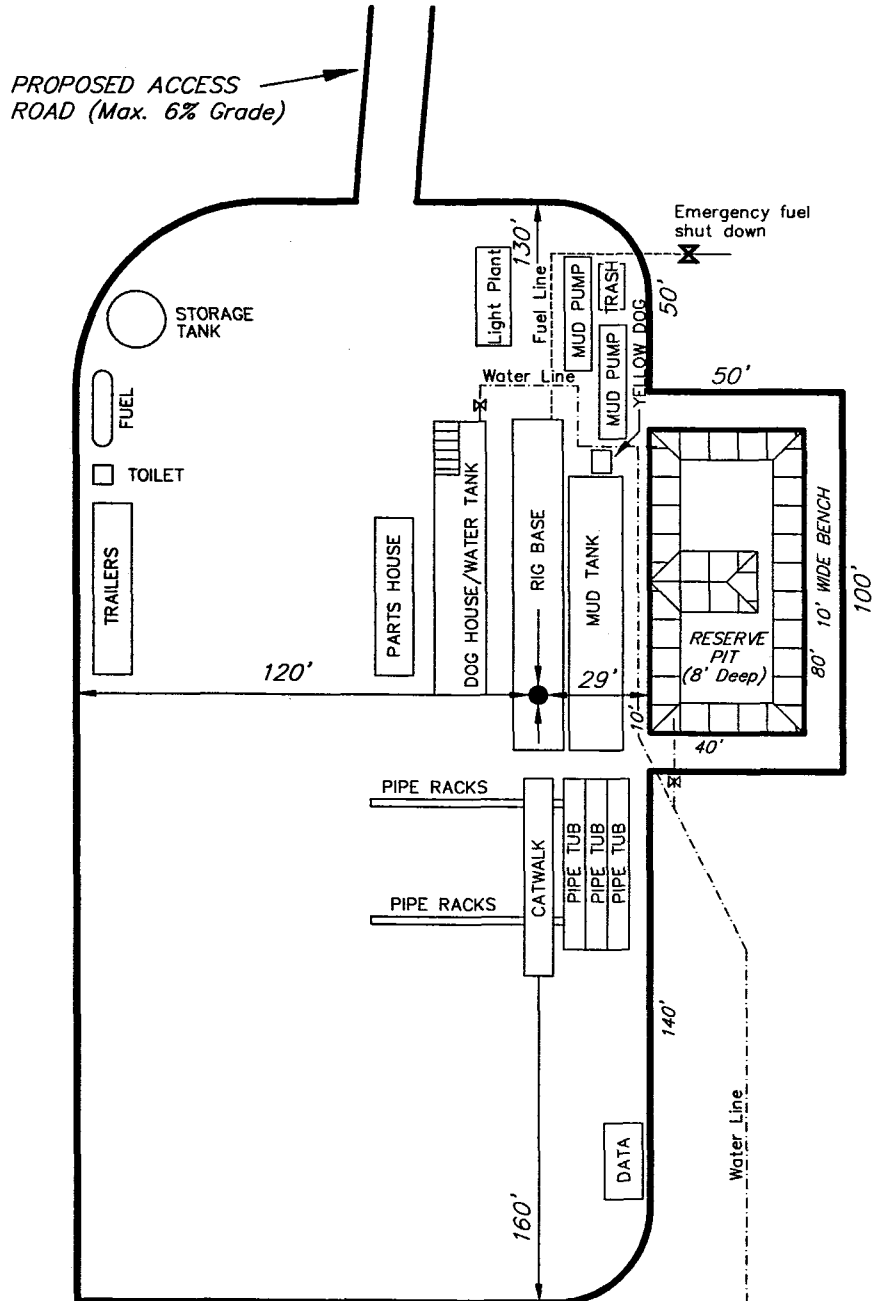
DATE: 7-6-04

**Tri State**  
**Land Surveying, Inc.**  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501

# INLAND PRODUCTION COMPANY

## TYPICAL RIG LAYOUT

### JONAH UNIT 12-14



SURVEYED BY: D.J.S.

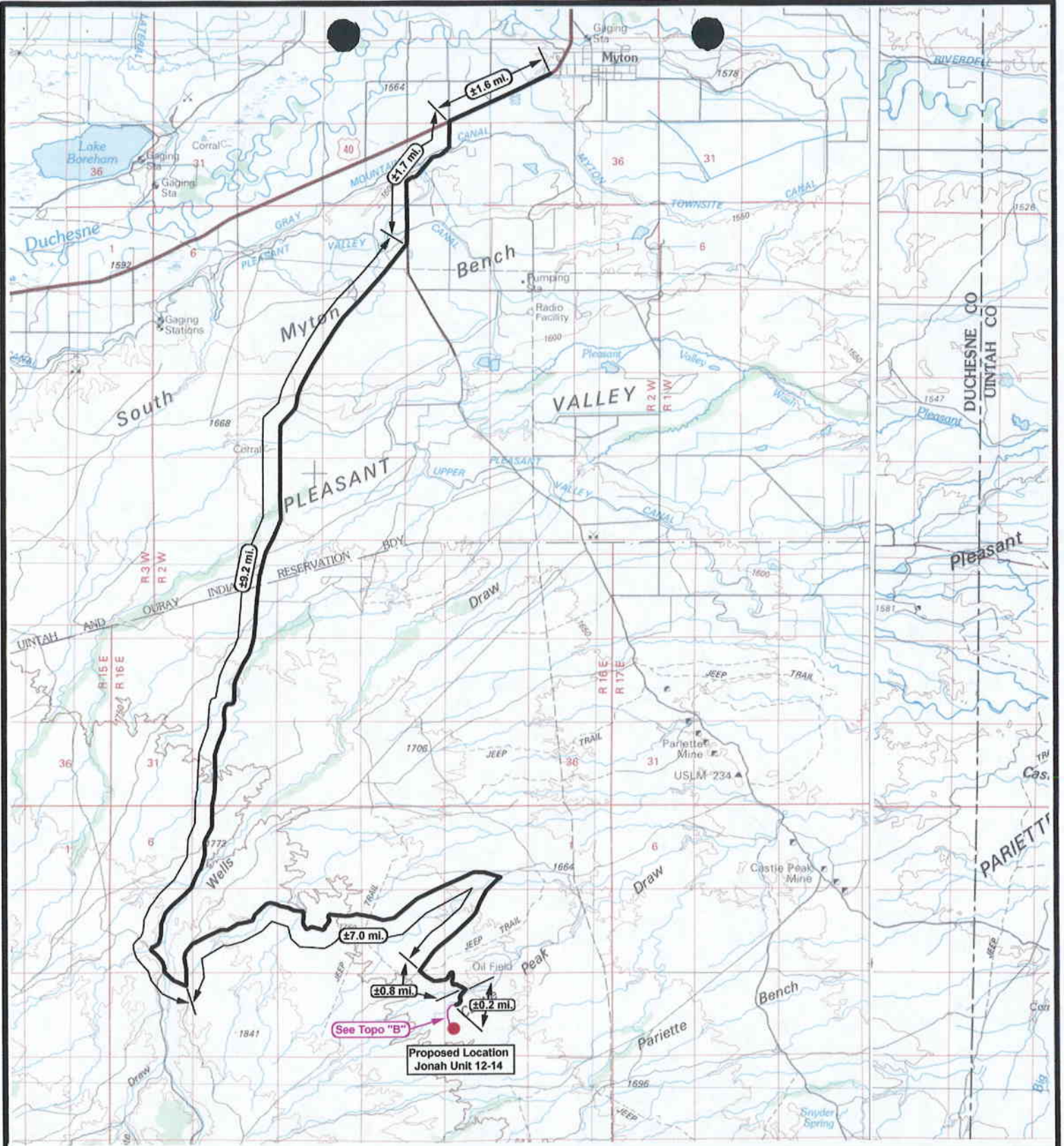
SCALE: 1" = 50'

DRAWN BY: F.T.M.

DATE: 7-6-04

Tri State  
Land Surveying, Inc.  
180 NORTH VERNAL AVE. VERNAL, UTAH 84078  
(435) 781-2501





**Jonah Unit 12-14**  
**SEC. 14, T9S, R16E, S.L.B.&M.**



**Tri-State**  
*Land Surveying Inc.*  
 (435) 781-2501  
 38 West 100 North Vernal, Utah 84078

SCALE: 1" = 100,000'  
 DRAWN BY: bgm  
 DATE: 07-08-2004

**Legend**

— Existing Road  
 — Proposed Access

TOPOGRAPHIC MAP

**"A"**

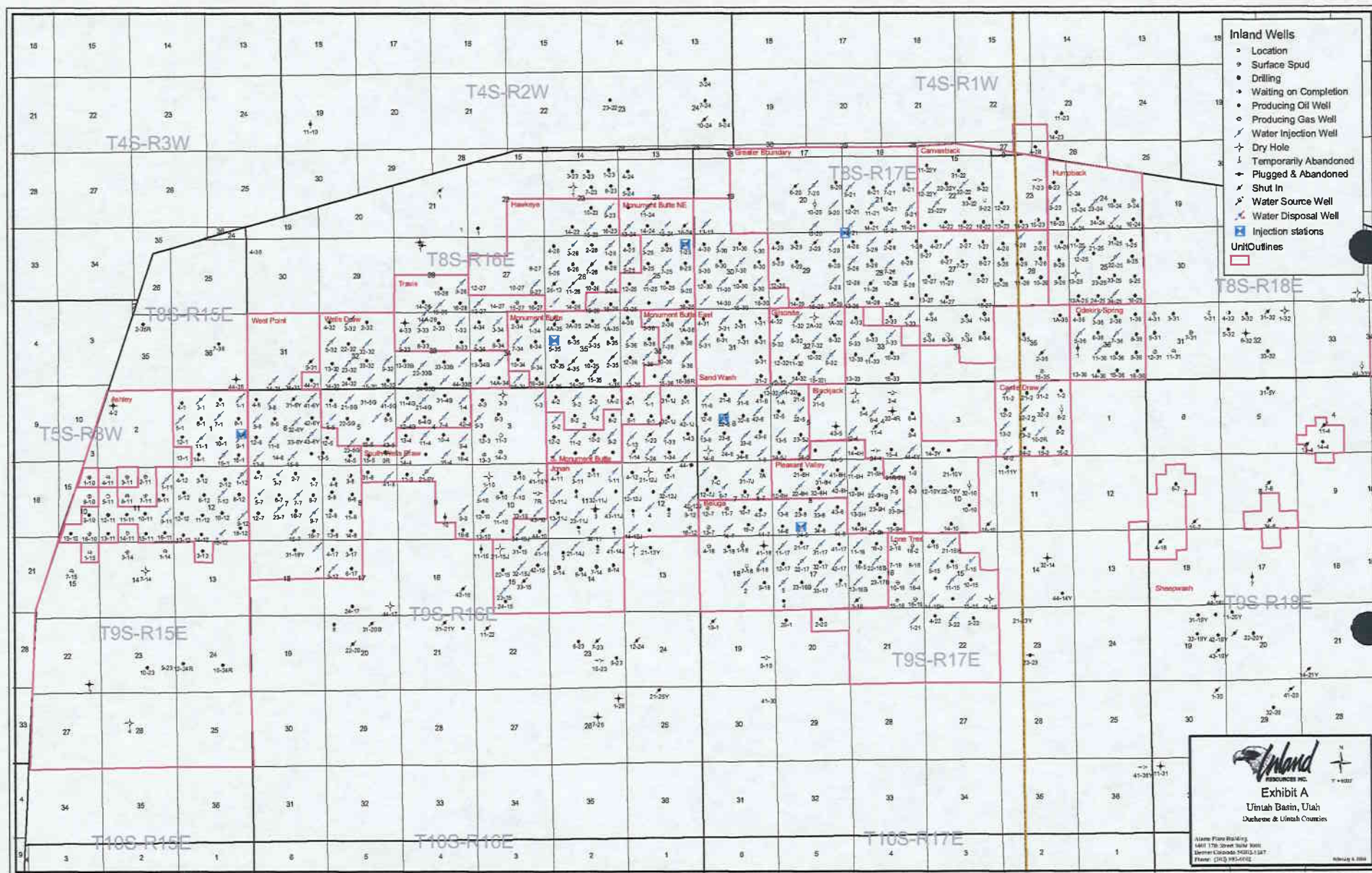


**"B"**









- Inland Wells**
- Location
  - Surface Spud
  - Drilling
  - Waiting on Completion
  - Producing Oil Well
  - Producing Gas Well
  - Water Injection Well
  - Dry Hole
  - Temporarily Abandoned
  - Plugged & Abandoned
  - Shut In
  - Water Source Well
  - Water Disposal Well
  - Injection stations
  - Unit Outlines

**Inland**  
RESOURCES INC.

**Exhibit A**  
Utah Basin, Utah  
Duchene & Ullrich Counties

Alameda Plaza Building  
1411 17th Street, Suite 100  
Denver, Colorado 80202-1387  
Phone: (303) 953-4700

February 6, 2004



Exhibit "B"

# 2-M SYSTEM

Blowout Prevention Equipment Systems

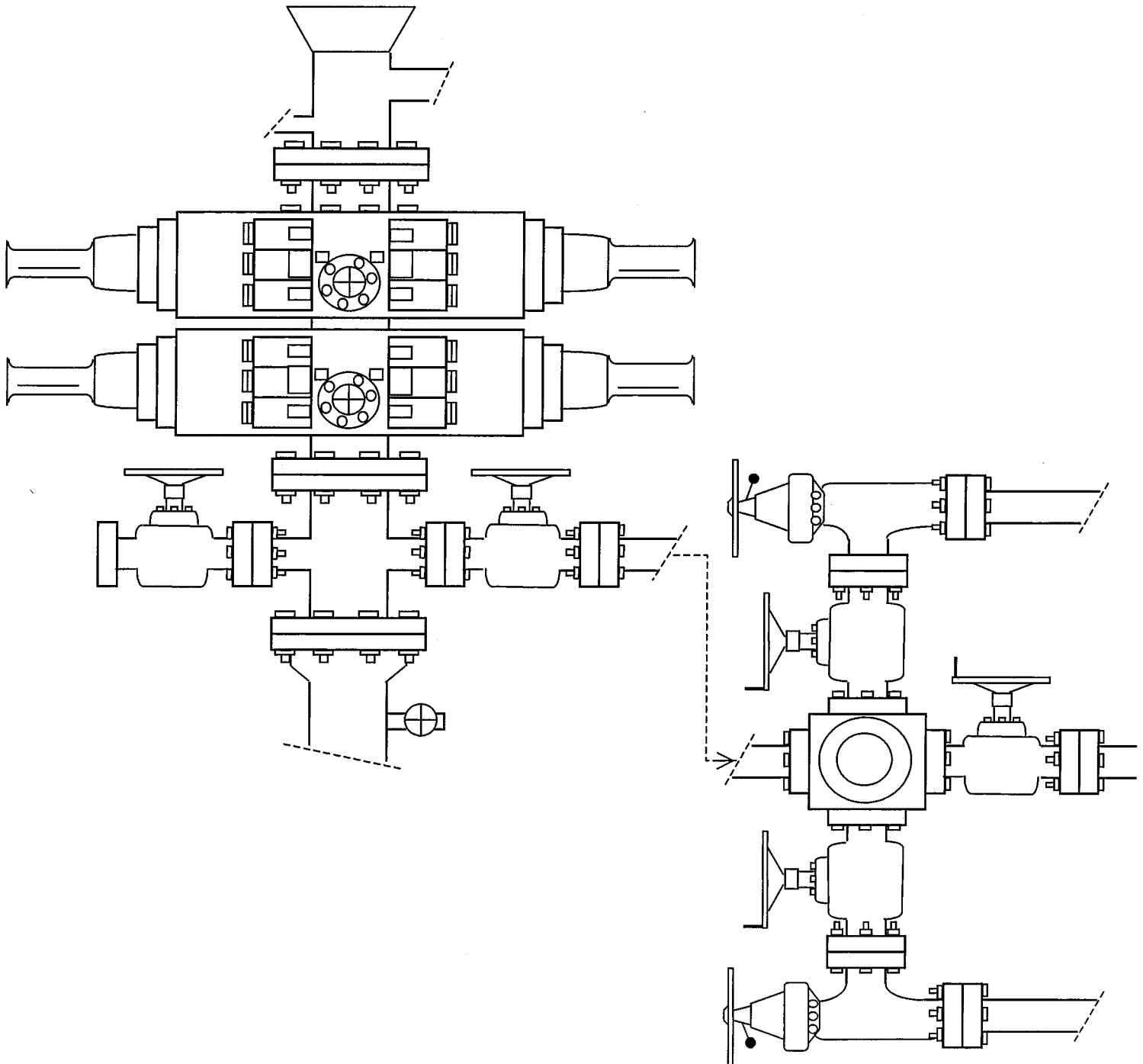


EXHIBIT C

CULTURAL RESOURCE INVENTORY OF INLAND  
RESOURCES' BLOCK PARCELS (T9S, R16E, SEC. 13 & 14)  
NEAR CASTLE PEAK DRAW, DUCHESNE COUNTY, UTAH.

by

Katie Simon  
and  
Keith Montgomery

Prepared For:

Bureau of Land Management  
Vernal Field Office

Prepared Under Contract With:

Inland Resources  
Route 3 Box 3630  
Myton, UT 84052

Prepared By:

Montgomery Archaeological Consultants  
P.O. Box 147  
Moab, Utah 84532

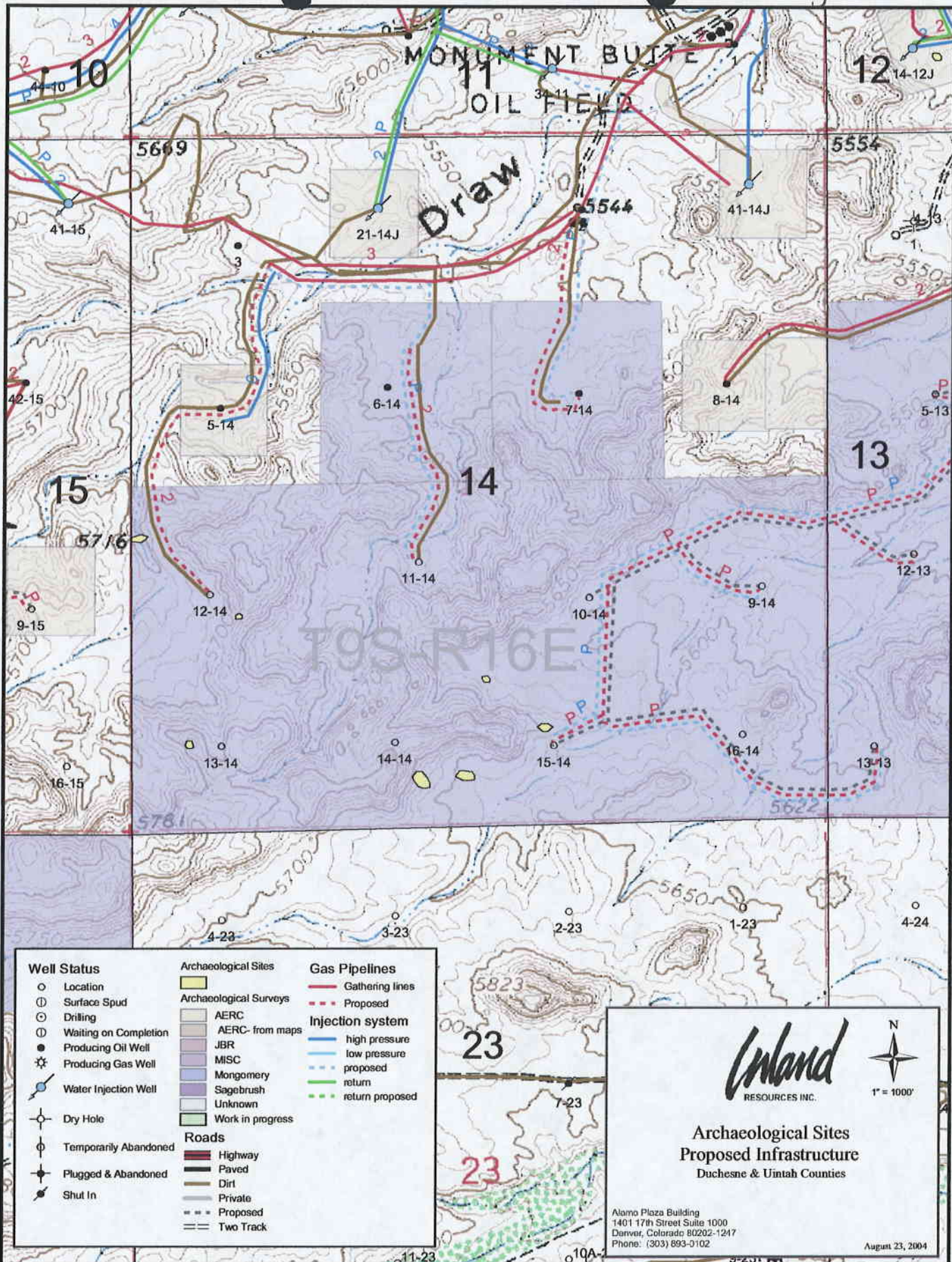
MOAC Report No. 04-44

May 5, 2003

United States Department of Interior (FLPMA)  
Permit No. 04-UT-60122

State of Utah Antiquities Project (Survey)  
Permit No. U-04-MQ-0328b





**INLAND RESOURCES, INC.**

**PALEONTOLOGICAL FIELD SURVEY OF PROPOSED  
PRODUCTION DEVELOPMENT AREAS,  
DUCHESNE COUNTY, UTAH**

(NE 1/4, SE 1/4, Sec. 10, T 9 S, R 17 E; SE 1/4, NW 1/4 &  
SW 1/4, NE 1/4, Sec. 29, T 8 S, R 17 E; South 1/2 Sec. 14  
T 9 S, R 16 E; and NW 1/4, Sec. 13, T 9 S, R 16 E)

**REPORT OF SURVEY**

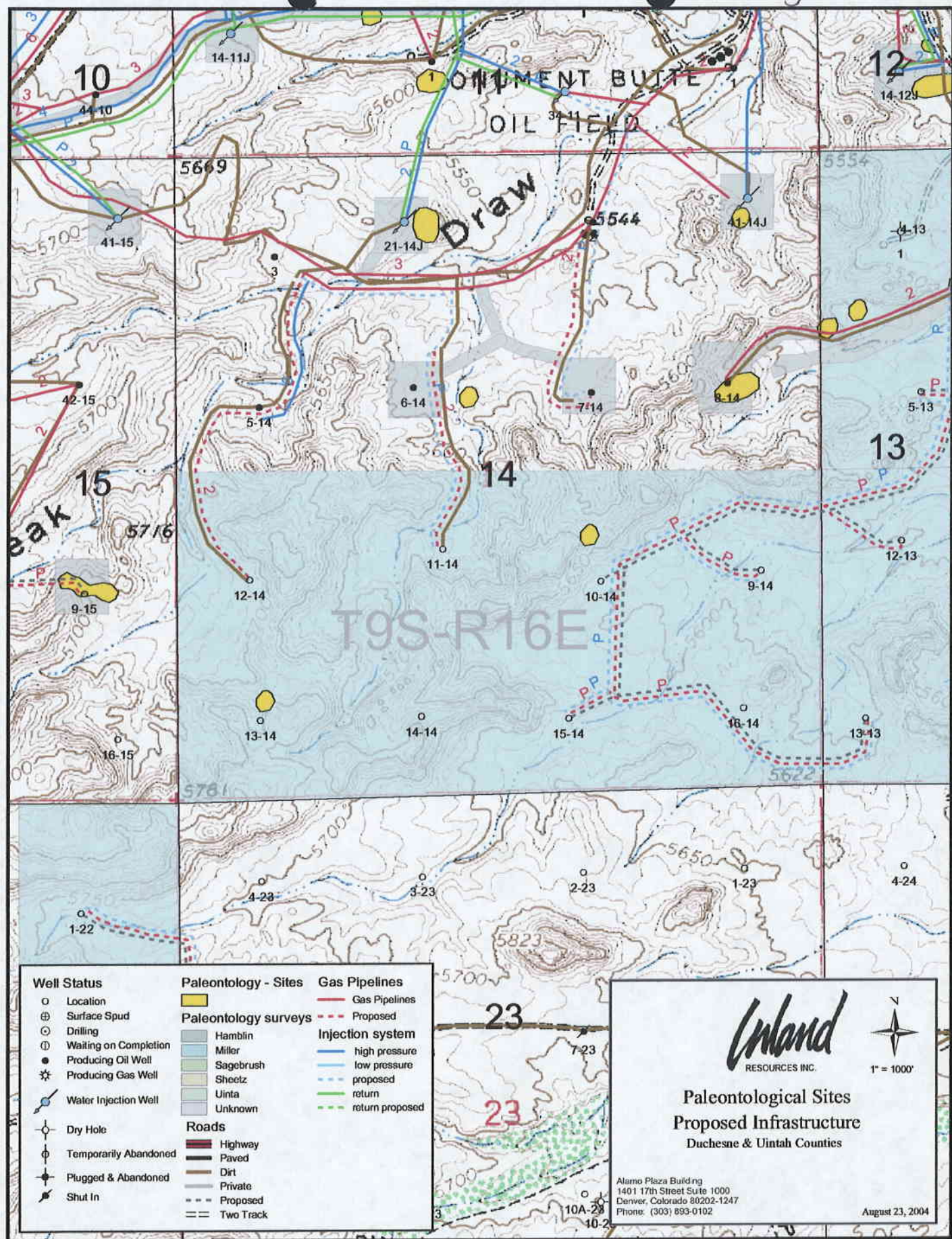
Prepared for:

**Inland Resources, Inc.**

Prepared by:

Wade E. Miller  
Consulting Paleontologist  
January 8, 2004







WORKSHEET  
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/12/2004

API NO. ASSIGNED: 43-013-32682

WELL NAME: JONAH FED 12-14-9-16

OPERATOR: NEWFIELD PRODUCTION ( N2695 )

CONTACT: LANA NEBEKER

PHONE NUMBER: 435-646-3721

## PROPOSED LOCATION:

NWSW 14 090S 160E

SURFACE: 1816 FSL 0575 FWL

BOTTOM: 1816 FSL 0575 FWL

DUCHESNE

MONUMENT BUTTE ( 105 )

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-096547

SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: GRRV

COALBED METHANE WELL? NO

INSPECT LOCATN BY: / /

| Tech Review | Initials | Date |
|-------------|----------|------|
| Engineering |          |      |
| Geology     |          |      |
| Surface     |          |      |

LATITUDE: 40.02853

LONGITUDE: -110.0933

## RECEIVED AND/OR REVIEWED:

☒ Plat  
☒ Bond: Fed[1] Ind[] Sta[] Fee[]  
(No. UTU0056 )  
☒ Potash (Y/N)  
☒ Oil Shale 190-5 (B) or 190-3 or 190-13  
☒ Water Permit  
(No. MUNICIPAL )  
☒ RDCC Review (Y/N)  
(Date: \_\_\_\_\_ )  
☒ Fee Surf Agreement (Y/N)

## LOCATION AND SITING:

     R649-2-3.Unit JONAH (GREEN RIVER)     R649-3-2. GeneralSiting: 460' From Qtr/Qtr & 920' Between Wells     R649-3-3. Exception☒ Drilling UnitBoard Cause No: 228-2Eff Date: 7-16-1993Siting: 460' fr 4 bdr & 920' fr other wells.     R649-3-11. Directional Drill

COMMENTS:

Sop, Separate file

STIPULATIONS:

1- Federal approved



## United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

## IN REPLY REFER TO:

3160

(UT-922)

October 14, 2004

## Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2004 Plan of Development Jonah Unit, Duchesne County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2004 within the Jonah Unit, Duchesne County, Utah.

| API# | WELL NAME | LOCATION |
|------|-----------|----------|
|------|-----------|----------|

(Proposed PZ Green River)

|              |   |  |
|--------------|---|--|
| 43-013-32681 | Jonah Federal 11-14-9-16 Sec 14 T09S R16E 2030 FSL 2160 FWL |  |
| 43-013-32682 | Jonah Federal 12-14-9-16 Sec 14 T09S R16E 1816 FSL 0575 FWL |  |
| 43-013-32683 | Jonah Federal 9-15-9-16 Sec 15 T09S R16E 1724 FSL 0782 FEL  |  |

This office has no objection to permitting the wells at this time.

---

/s/ Michael L. Coulthard

bcc: File - Jonah Unit  
Division of Oil Gas and Mining  
Central Files  
Agr. Sec. Chron  
Fluid Chron

MCoulthard:mc:10-14-04



State of Utah

Department of  
Natural Resources

ROBERT L. MORGAN  
*Executive Director*

Division of  
Oil, Gas & Mining

LOWELL P. BRAXTON  
*Division Director*

OLENE S. WALKER  
*Governor*

GAYLE F. McKEACHNIE  
*Lieutenant Governor*

October 18, 2004

Newfield Production  
Rt. #3, Box 3630  
Myton, UT 84052

Re: Jonah Federal 12-14-9-16 Well, 1816' FSL, 575' FWL, NW SW, Sec. 14,  
T. 9 South, R. 16 East, Duchesne County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-013-32682.

Sincerely,

A handwritten signature in black ink, appearing to read "John R. Baza".

John R. Baza  
Associate Director

pab  
Enclosures

cc: Duchesne County Assessor  
Bureau of Land Management, Vernal District Office

**Operator:** Newfield Production  
**Well Name & Number** Jonah Federal 12-14-9-16  
**API Number:** 43-013-32682  
**Lease:** UTU-096547

**Location:** NW SW      **Sec.** 14      **T.** 9 South      **R.** 16 East

### **Conditions of Approval**

**1. General**

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

**2. Notification Requirements**

Notify the Division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dan Jarvis at (801) 538-5338

**3. Reporting Requirements**

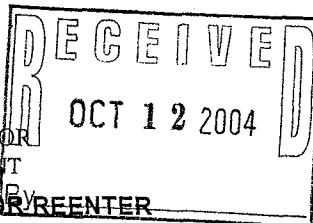
All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

**4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.**

006

Form 3160-3  
(September 2001)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0136  
Expires January 31, 2004

|  |   |  |
|--|---|--|
| 1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER   |   | 5. Lease Serial No.<br>UTU-096547  |
| 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input checked="" type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone |   | 6. If Indian, Allottee or Tribe Name<br>N/A                                      |
| 2. Name of Operator<br>Newfield Production Company   |   | 7. If Unit or CA Agreement, Name and No.<br>JONAH                                |
| 3a. Address<br>Route #3 Box 3630, Myton UT 84052   |   | 8. Lease Name and Well No.<br>Jonah Federal 12-14-9-16                           |
| 3b. Phone No. (include area code)<br>(435) 646-3721  |   | 9. API Well No.<br>43-013-32682  |
| 4. Location of Well (Report location clearly and in accordance with any State requirements.)*<br>At surface NW/SW 1816' FSL 575' FWL<br>At proposed prod. zone   |   | 10. Field and Pool, or Exploratory<br>Monument Butte                             |
| 14. Distance in miles and direction from nearest town or post office*<br>Approximately 20.5 miles south of Myton, Utah   |   | 11. Sec., T., R., M., or Blk. and Survey or Area<br>NW/SW Sec. 14, T9S R16E      |
| 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) Approx. 1816' f/ls, 1816' f/unit   | 16. No. of Acres in lease<br>600.00                       | 12. County or Parish<br>Duchesne   |
| 17. Spacing Unit dedicated to this well<br>40 Acres  | 13. State<br>UT   |  |
| 18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 1,585'  | 19. Proposed Depth<br>6060'                               | 20. BLM/BIA Bond No. on file<br>UTU0056  |
| 21. Elevations (Show whether DF, KDB, RT, GL, etc.)<br>5682.4' GL  | 22. Approximate date work will start*<br>1st Quarter 2005 | 23. Estimated duration<br>Approximately seven (7) days from spud to rig release. |

## 24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- |   |  |
|---|--|
| 1. Well plat certified by a registered surveyor.  | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).    |
| 2. A Drilling Plan.   | 5. Operator certification.   |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

|  |                                      |                    |
|--|--------------------------------------|--------------------|
| 25. Signature<br><i>Lana Nebeker</i>                   | Name (Printed/Typed)<br>Lana Nebeker | Date<br>10-8-04    |
| Title<br>Production Clerk                              |                                      |                    |
| Approved by (Signature)<br><i>Howard B. Leavengood</i> | Name (Printed/Typed)                 | Date<br>03/25/2005 |
| Title<br>Assistant Field Manager<br>Mineral Resources  | Office                               |                    |

Application approval does not warrant or certify the the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

**CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\*(Instructions on reverse)

RECEIVED

APR 05 2005

NOTICE OF APPROVAL

DIV. OF OIL, GAS &amp; MINING

UDOGM

CONDITIONS OF APPROVAL  
APPLICATION FOR PERMIT TO DRILL

Company/Operator: Newfield Production Company.

Well Name & Number: Jonah Federal 12-14-9-16

API Number: 43-013-32682

Lease Number: U-096547

Location: NWSW Sec. 14 T. 9S R. 16E

Agreement: Jonah (GR) SR

For more specific details on notification requirements, please check the Conditions of Approval for Notice to Drill and Surface Use Program.

**CONDITIONS OF APPROVAL FOR NOTICE TO DRILL**

Approval of this application does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Be aware fire restrictions may be in effect when location is being constructed and/or when well is being drilled. Contact the appropriate Surface Management Agency for information.

**Please submit to this office, in LAS format, an electronic copy of all logs run on this well. This submission will replace the requirement for submittal of paper logs to the BLM.**

In the event after-hours approvals are necessary, you must contact one of the following individuals:

Kirk Fleetwood (435) 828-7874  
Petroleum Engineer

Michael Lee (435) 828-7875  
Petroleum Engineer

BLM FAX Machine (435) 781-4410

**SURFACE USE PROGRAM  
CONDITIONS OF APPROVAL (COAs)**

No construction or drilling shall be allowed during the raptor nesting season of April 1 to July 15 without first consulting with the BLM wildlife biologist.

To reduce noise in the area, a hospital-type muffler or other similar devise shall be installed on the pumping unit.



## DIVISION OF OIL, GAS AND MINING

### **SPUDDING INFORMATION**

Name of Company: NEWFIELD PRODUCTION COMPANY

Well Name: JONAH FED 12-14-9-16

Api No: 43-013-32682 Lease Type: FEDERAL

Section 14 Township 09S Range 16E County DUCHESNE

Drilling Contractor NDSI RIG # NS#1

### **SPUDDED:**

Date 05/28/05

Time 2:30 PM

How DRY

**Drilling will Commence:** \_\_\_\_\_

Reported by RAY HERRERA

Telephone # 1-435-823-1990

Date 06/01/2005 Signed CHD

RECEIVED

JUN 01 2005

DIV. OF OIL, GAS &amp; MINING

STATE OF UTAH  
DIVISION OF OIL, GAS AND MINING  
ENTITY ACTION FORM - FORM 6

OPERATOR: **NEWFIELD PRODUCTION COMPANY**  
ADDRESS: **RT. 3 BOX 3630**  
**MYTON, UT 84052**

OPERATOR ACCT NO. **N2885**

| ACTION CODE                  | CURRENT ENTITY NO. | NEW ENTITY NO. | API NUMBER   | WELL NAME                | WELL LOCATION |    |    |     |          | SPUD DATE | EFFECTIVE DATE |
|------------------------------|--------------------|----------------|--------------|--------------------------|---------------|----|----|-----|----------|-----------|----------------|
|                              |                    |                |              |                          | QQ            | SC | TP | RG  | COUNTY   |           |                |
| B                            | 99999              | 11492          | 43-013-32682 | Jonah Federal 12-14-9-16 | NW/SW         | 14 | 9S | 16E | Duchesne | 5/28/2005 | 6/2/05         |
| WELL 1 COMMENTS: <i>GRRV</i> |                    |                |              |                          |               |    |    |     |          |           |                |
| A                            | 99999              | 14739          | 43-013-32459 | Ashley Federal 9-13-9-15 | NE/SE         | 13 | 9S | 15E | Duchesne | 5/30/2005 | 6/2/05         |
| WELL 2 COMMENTS: <i>GRRV</i> |                    |                |              |                          |               |    |    |     |          |           |                |
|                              |                    |                |              |                          |               |    |    |     |          |           |                |
| WELL 3 COMMENTS:             |                    |                |              |                          |               |    |    |     |          |           |                |
|                              |                    |                |              |                          |               |    |    |     |          |           |                |
| WELL 4 COMMENTS:             |                    |                |              |                          |               |    |    |     |          |           |                |
|                              |                    |                |              |                          |               |    |    |     |          |           |                |
| WELL 5 COMMENTS:             |                    |                |              |                          |               |    |    |     |          |           |                |

ACTION CODES (See instructions on back of form)

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (explain in comments section)

NOTE: Use COMMENT section to explain why each Action Code was selected

*Kebbie S. Jones*  
Signature  
Production Clerk  
Title

Kebbie S. Jones

June 1, 2005  
Date

K

K

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE. Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1816 FSL 575 FWL

NW/SW Section 14 T9S R16E

5. Lease Serial No.

UTU096547

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

JONAH UNIT

8. Well Name and No.

JONAH FEDERAL 12-14-9-16

9. API Well No.

4301332682

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |   |   |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation              | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete               | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon      | Spud Notice                                     |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal           |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 5/28/2005 MIRU NDSI NS # 1. Spud well @ 2:30 PM. Drill 310' of 12 1/4" hole with air mist. TIH W/ 7 Jt's 8 5/8" J-55 24 # csgn. Set @ 314.73' KB On 6/2/2005 cement with 160 sks of class "G" w/ 3% CaCL<sub>2</sub> + 1/4# sk Cello- Flake Mixed @ 15.8 ppg > 1.17 cf/ sk yeild. Returned 5 bbls cement to pit. WOC.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Floyd Mitchell

Title

Drilling Supervisor

Signature

*Floyd Mitchell*

Date

06/03/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

RECEIVED

JUN 13 2005

DEPT. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

8 5/8

CASING SET AT 314.73

LAST CASING 8 5/8" SET AT 314.73'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING \_\_\_\_\_  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 310' LOGGER \_\_\_\_\_  
 HOLE SIZE 12 1/4

OPERATOR Newfield Production Company  
 WELL Jonah Federal 12-14-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI NS #1

**LOG OF CASING STRING:**

| PIECES  | OD     | ITEM - MAKE - DESCRIPTION   | WT / FT             | GRD                         | THREAD | CONDT | LENGTH |         |
|---|--------|---|---------------------|-----------------------------|--------|-------|--------|---------|
|   |        |   |                     |                             |        |       |        |         |
|   |        |   |                     |                             |        |       |        |         |
|   |        | Shoe Joint 43.60'   |                     |                             |        |       |        |         |
|   |        | WHI - 92 csg head   |                     |                             | 8rd    | A     | 0.95   |         |
| 7   | 8 5/8" | Maverick ST&C csg   | 24#                 | J-55                        | 8rd    | A     | 302.88 |         |
|   |        | GUIDE shoe  |                     |                             | 8rd    | A     | 0.9    |         |
| CASING INVENTORY BAL.                                 |        | FEET  | JTS                 | TOTAL LENGTH OF STRING      |        |       |        | 304.73  |
| TOTAL LENGTH OF STRING                                |        | 304.73  | 7                   | LESS CUT OFF PIECE          |        |       |        | 2       |
| LESS NON CSG. ITEMS                                   |        | 1.85  |                     | PLUS DATUM TO T/CUT OFF CSG |        |       |        | 12      |
| PLUS FULL JTS. LEFT OUT                               |        | 0   |                     | CASING SET DEPTH            |        |       |        | 314.73  |
| TOTAL   |        | 302.88  | 7                   | } COMPARE                   |        |       |        |         |
| TOTAL CSG. DEL. (W/O THRDS)                           |        | 302.88  | 7                   |                             |        |       |        |         |
| TIMING  |        | 1ST STAGE   |                     |                             |        |       |        |         |
| BEGIN RUN CSG.  |        | Spud 5/28/2005  | 2:30 PM             | GOOD CIRC THRU JOB          |        |       |        | Yes     |
| CSG. IN HOLE  |        | 5/31/2005   | 2:00 PM             | Bbls CMT CIRC TO SURFACE    |        |       |        | 5       |
| BEGIN CIRC  |        | 6/2/2005  | 10:01 AM            | RECIPROCATED PIPE FOR       |        |       |        | N/A     |
| BEGIN PUMP CMT  |        | 6/2/2005  | 10:15 AM            |                             |        |       |        |         |
| BEGIN DSPL. CMT                                       |        | 6/2/2005  | 10:24 AM            | BUMPED PLUG TO              |        |       |        | 760 PSI |
| PLUG DOWN   |        | 6/2/2005  | 10:31 AM            |                             |        |       |        |         |
| CEMENT USED   |        | CEMENT COMPANY- B. J.   |                     |                             |        |       |        |         |
| STAGE   | # SX   | CEMENT TYPE & ADDITIVES   |                     |                             |        |       |        |         |
| 1   | 160    | Class "G" w/ 2% CaCL2 + 1/4#/sk Cello-Flake mixed @ 15.8 ppg 1.17 cf/sk yield |                     |                             |        |       |        |         |
|   |        |   |                     |                             |        |       |        |         |
|   |        |   |                     |                             |        |       |        |         |
| CENTRALIZER & SCRATCHER PLACEMENT                     |        |   | SHOW MAKE & SPACING |                             |        |       |        |         |
| Centralizers - Middle first, top second & third for 3 |        |   |                     |                             |        |       |        |         |
|   |        |   |                     |                             |        |       |        |         |

COMPANY REPRESENTATIVE Floyd Mitchell

DATE 6/3/2005

RECEIVED

JUN 13 2005

DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1816 FSL 575 FWL

NW/SW Section 14 T9S R16E

5. Lease Serial No.

UTU096547

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

JONAH UNIT

8. Well Name and No.

JONAH FEDERAL 12-14-9-16

9. API Well No.

4301332682

10. Field and Pool, or Exploratory Area

Monument Butte

11. County or Parish, State

Duchesne, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION                                    | TYPE OF ACTION                               |   |   |   |
|---|--|---|---|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production(Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation              | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment Notice     | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete               | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon      | Weekly Status Report                            |
|   | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal           |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

On 6/13/2005 MIRU NDSI #2. Set all equipment. Pressure test Kelly, TIW, Choke manifold, & Bop's to 2,000 psi. Test 8.625 csgn to 1,500 psi. Vernal BLM field, & Roosevelt DOGM office was notified of test. PU BHA and tag cement @ 271'. Drill out cement & shoe. Drill a 7.875 hole with fresh water to a depth of 5895'. Lay down drill string & BHA. Open hole log w/ Dig/SP/GR log's TD to surface. PU & TIH with Guide shoe, shoe jt, float collar, 141 jt's of 5.5 J-55, 15.5# csgn. Set @ 5844.04' / KB. Cement with 300sks cement mixed @ 11.0 ppg & 3.43 yld. The 400 sks cement mixed @ 14.4 ppg & 1.24 yld. With all spacers returned to pit. Nipple down Bop's. Drop slips @ 83,000 #'s tension. Release rig 6:00 am on 6/20/2005.

I hereby certify that the foregoing is true and correct

Name (Printed/ Typed)  
Floyd Mitchell

Title

Drilling Supervisor

Signature

*Floyd Mitchell*

Date

06/20/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

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Title

Date

Office

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(Instructions on reverse)

RECEIVED

JUN 23 2005

DIV. OF OIL, GAS & MINING

# NEWFIELD PRODUCTION COMPANY - CASING & CEMENT REPORT

5 1/2" CASING SET AT 5844.04

LAST CASING 8 5/8" SET AT 314'  
 DATUM 12' KB  
 DATUM TO CUT OFF CASING 12'  
 DATUM TO BRADENHEAD FLANGE \_\_\_\_\_  
 TD DRILLER 5895' Loggers TD 5860'  
 HOLE SIZE 7 7/8"

Flt cllr @ 5801'  
 OPERATOR Inland Production Company  
 WELL Jonah Federal 12-14-9-16  
 FIELD/PROSPECT Monument Butte  
 CONTRACTOR & RIG # NDSI Rig #2

## LOG OF CASING STRING:

| PIECES     | OD            | ITEM - MAKE - DESCRIPTION | WT / FT      | GRD         | THREAD     | CONDT    | LENGTH  |
|------------|---------------|---------------------------|--------------|-------------|------------|----------|---------|
|            |               | Landing Jt                |              |             |            |          | 14      |
|            | <b>SHJT</b>   | <b>5.90' @ 3921'</b>      |              |             |            |          |         |
| <b>141</b> | <b>5 1/2"</b> | ETC LT & C casing         | <b>15.5#</b> | <b>J-55</b> | <b>8rd</b> | <b>A</b> | 5787.67 |
|            |               | Float collar              |              |             |            |          | 0.6     |
| <b>1</b>   | <b>5 1/2"</b> | ETC LT&C csg              | <b>15.5#</b> | <b>J-55</b> | <b>8rd</b> | <b>A</b> | 43.12   |
|            |               | <b>GUIDE</b> shoe         |              |             | <b>8rd</b> | <b>A</b> | 0.65    |

|                             |                |            |                             |                    |
|-----------------------------|----------------|------------|-----------------------------|--------------------|
| CASING INVENTORY BAL.       | FEET           | JTS        | TOTAL LENGTH OF STRING      | 5846.04            |
| TOTAL LENGTH OF STRING      | 5846.04        | 142        | LESS CUT OFF PIECE          | 14                 |
| LESS NON CSG. ITEMS         | 15.25          |            | PLUS DATUM TO T/CUT OFF CSG | 12                 |
| PLUS FULL JTS. LEFT OUT     | 155.73         | 4          | CASING SET DEPTH            | <b>5844.04</b>     |
| <b>TOTAL</b>                | <b>5986.52</b> | <b>146</b> | } COMPARE                   |                    |
| TOTAL CSG. DEL. (W/O THRDS) | 5986.52        | 146        |                             |                    |
| TIMING                      | 1ST STAGE      | 2nd STAGE  |                             |                    |
| BEGIN RUN CSG.              | 6/19/2005      | 10:00 PM   | GOOD CIRC THRU JOB          | Yes                |
| CSG. IN HOLE                | 6/20/2005      | 1:30 AM    | Bbls CMT CIRC TO SURFACE    | All spacers to pit |
| BEGIN CIRC                  | 6/20/2005      | 1:30 AM    | RECIPROCATED PIPE FOR       | THRUSTROKE         |
| BEGIN PUMP CMT              | 6/20/2005      | 2:02 AM    | DID BACK PRES. VALVE HOLD ? | Yes                |
| BEGIN DSPL. CMT             | 6/20/2005      | 2:51 AM    | BUMPED PLUG TO              | 1952 PSI           |
| PLUG DOWN                   | 6/20/2005      | 3:15 AM    |                             |                    |

|   |      |   |
|---|------|---|
| CEMENT USED   |      | 4 CEMENT COMPANY- <b>B. J.</b>  |
| STAGE   | # SX | CEMENT TYPE & ADDITIVES   |
| 1   | 300  | Premlite II w/ 10% gel + 3 % KCL, 3#s /sk CSE + 2# sk/kolseal + 1/2#s/sk Cello Flake          |
|   |      | mixed @ 11.0 ppg W / 3.43 cf/sk yield   |
| 2   | 400  | 50/50 poz W/ 2% Gel + 3% KCL, .5%EC1, 1/4# sk C.F. 2% gel. 3% SM mixed @ 14.4 ppg W/ 1.24 YLD |
| CENTRALIZER & SCRATCHER PLACEMENT   |      | SHOW MAKE & SPACING   |
| Centralizers - Middle first, top second & third. Then every third collar for a total of 20. |      |   |
|   |      |   |
|   |      |   |

COMPANY REPRESENTATIVE Floyd Mitchell

DATE 6/20/2005

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

RECEIVED

JUL 18 2005

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

DIV. OF OIL, GAS & MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**  
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**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1816 FSL 575 FWL

NW/SW Section 14 T9S R16E

5. Well Name and No.

UTU096547

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

JONAH UNIT

8. Well Name and No.

JONAH FEDERAL 12-14-9-16

9. API Well No.

4301332682

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                               |   |  |   |
|--|--|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other _____ |
|  | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | Variance _____                                  |
|  | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production Company is requesting a variance from Onshore Order 43 CFR Part 3160 Section 4 requiring production tanks to be equipped with Enardo or equivalent vent line valves. Newfield operates wells that produce from the Green River formation, which are relatively low gas producers (20 mcfpd). The majority of the wells are equipped with a three phase separator to maximize gas separation and sales.

Newfield is requesting a variance for safety reasons. Crude oil production tanks equipped with back pressure devices will emit a surge of gas when the thief hatches are open. While gauging tanks, lease operators will be subject to breathing toxic gases as well as risk a fire hazard, under optimum conditions

COPY SENT TO OPERATOR

Date: 7-21-05  
Initials: CHO

Accepted by the  
Utah Division of  
Oil, Gas and Mining

Date: 7/19/05  
By: [Signature]

Federal Approval Of This  
Action Is Necessary

I hereby certify that the foregoing is true and correct

Name (Printed/Typed)  
Mandie Crozier

Signature

Title

Regulatory Specialist

Date

07/15/2005

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED  
OMB No. 1004-0135  
Expires January 31, 2004

**SUBMIT IN TRIPLICATE - Other Instructions on reverse side**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

Newfield Production Company

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone No. (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1816 FSL 575 FWL

NW/SW Section 14 T9S R16E

5. Lease Serial No.

UTU096547

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or No.

JONAH UNIT

8. Well Name and No.

JONAH FEDERAL 12-14-9-16

9. API Well No.

4301332682

10. Field and Pool, or Exploratory Area  
Monument Butte

11. County or Parish, State

Duchesne, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION                               |   |  |   |
|--|--|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize             | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing        | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment Notice    | <input type="checkbox"/> Casing Repair       | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other _____    |
|  | <input type="checkbox"/> Change Plans        | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       |   |
|  | <input type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input checked="" type="checkbox"/> Water Disposal |   |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Formation water is produced to a steel storage tank. If the production water meets quality guidelines, it is transported to the Ashley, Monument Butte, Jonah, and Beluga water injection facilities by company or contract trucks. Subsequently, the produced water is injected into approved Class II wells to enhance Newfield's secondary recovery project.

Water not meeting quality criteria, is disposed at Newfield's Pariette #4 disposal well (Sec. 7, T9S R19E) or at State of Utah approved surface disposal facilities.

Accepted by the  
Utah Division of  
Oil, Gas and Mining  
FOR RECORD ONLY

RECEIVED  
JUL 18 2005  
DIV. OF OIL, GAS & MINING

I hereby certify that the foregoing is true and correct

Name (Printed/Typed)  
Mandie Crozier

Title

Regulatory Specialist

Signature

Date

07/15/2005

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by \_\_\_\_\_

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on reverse)



RECEIVED

FORM 3160-4  
(July 1992)

AUG 23 2005

SUBMIT IN DUPLICATE\*

(See other in-  
structions on  
reverse side)

FORM APPROVED

OMB NO. 1004-0137

Expires: February 28, 1995

**UNITED STATES**  
**DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

DIV. OF OIL, GAS &amp; MINING

**WELL COMPLETION OR RECOMPLETION REPORT AND LOG\*****1a. TYPE OF WORK**

OIL WELL ☒ GAS WELL ☐ DRY ☐ Other \_\_\_\_\_

**1b. TYPE OF WELL**

NEW WELL ☒ WORK OVER ☐ DEEPEN ☐ PLUG BACK ☐ DIFF RESVR. ☐ Other \_\_\_\_\_

**2. NAME OF OPERATOR**

Newfield Exploration Company

**3. ADDRESS AND TELEPHONE NO.**

1401 17th St. Suite 1000 Denver, CO 80202

**4. LOCATION OF WELL (Report locations clearly and in accordance with any State requirements.)\***

At Surface 1816' FSL &amp; 575' FWL (NW/SW) Sec. 14, T9S, R16E

At top prod. Interval reported below

At total depth

**14. API NO.**

43-013-32682

**DATE ISSUED**

10/18/04

**12. COUNTY OR PARISH**

Duchesne

**13. STATE**

UT

**15. DATE SPUDDED**

5/28/05

**16. DATE T.D. REACHED**

6/19/05

**17. DATE COMPL. (Ready to prod.)**

7/12/05

**18. ELEVATIONS (DF, RKB, RT, GR, ETC.)\***

5682' GL

**19. ELEV. CASINGHEAD**

5694' KB

**20. TOTAL DEPTH, MD & TVD**

5875'

**21. PLUG BACK T.D., MD & TVD**

5800'

**22. IF MULTIPLE COMPL., HOW MANY\*****23. INTERVALS DRILLED BY**

-----&gt;

**ROTARY TOOLS**

X

**CABLE TOOLS****24. PRODUCING INTERVAL(S), OF THIS COMPLETION--TOP, BOTTOM, NAME (MD AND TVD)\***

Green River 4008'-5716'

**25. WAS DIRECTIONAL SURVEY MADE**

No

**26. TYPE ELECTRIC AND OTHER LOGS RUN**

Dual Induction Guard, SP, Compensated Density, Compensated Neutron, GR, Caliper, Cement Bond Log

**27. WAS WELL CORED**

No

**23. CASING RECORD (Report all strings set in well)**

| CASING SIZE/GRADE | WEIGHT, LB./FT. | DEPTH SET (MD) | HOLE SIZE | TOP OF CEMENT, CEMENTING RECORD          | AMOUNT PULLED |
|-------------------|-----------------|----------------|-----------|--|---------------|
| 8-5/8" - J-55     | 24#             | 315'           | 12-1/4"   | To surface with 160 sx Class "G" cmt     |               |
| 5-1/2" - J-55     | 15.5#           | 5844'          | 7-7/8"    | 300 sx Premilite II and 400 sx 50/50 Poz |               |

**29. LINER RECORD**

| SIZE | TOP (MD) | BOTTOM (MD) | SACKS CEMENT* | SCREEN (MD) | SIZE   | DEPTH SET (MD) | PACKER SET (MD) |
|------|----------|-------------|---------------|-------------|--------|----------------|-----------------|
|      |          |             |               |             | 2-7/8" | EOT @ 5712'    | TA @ 5611'      |

**31. PERFORATION RECORD (Interval, size and number)**

| INTERVAL                           | SIZE | SPF/NUMBER | DEPTH INTERVAL (MD) | AMOUNT AND KIND OF MATERIAL USED             |
|------------------------------------|------|------------|---------------------|--|
| (CP3&5) 5551'-5556', 5711'-5716'   | .41" | 4/40       | 5551'-5716'         | Frac w/ 25,908# 20/40 sand in 306 bbls fluid |
| (A1&LODC) 5007'-5018', 5113'-5119' | .41" | 4/68       | 5007'-5119'         | Frac w/ 45,085# 20/40 sand in 409 bbls fluid |
| (B2) 4847'-4856'                   | .41" | 4/36       | 4847'-4856'         | Frac w/ 28,119# 20/40 sand in 234 bbls fluid |
| (C) 4691'-4699', 4702'-4712'       | .41" | 4/72       | 4691'-4712'         | Frac w/ 99,846# 20/40 sand in 706 bbls fluid |
| (D1) 4556'-4565'                   | .41" | 4/36       | 4556'-4565'         | Frac w/ 54,984# 20/40 sand in 446 bbls fluid |
| (GB2&4) 4008'-4026', 4060'-4067'   | .41" | 4/100      | 4008'-4067'         | Frac w/ 60,730# 20/40 sand in 457 bbls fluid |

**33.\* PRODUCTION**

|                                  |   |                                   |                                   |                  |                 |   |
|----------------------------------|---|-----------------------------------|-----------------------------------|------------------|-----------------|---|
| DATE FIRST PRODUCTION<br>7/12/05 | PRODUCTION METHOD (Flowing, gas lift, pumping--size and type of pump)<br>2-1/2" x 1-1/2" x 15.5' RHAC SM Plunger Pump |                                   |                                   |                  |                 | WELL STATUS (Producing or shut-in)<br>PRODUCING |
| DATE OF TEST<br>10 day ave       | HOURS TESTED  | CHOKE SIZE                        | PROD'N. FOR TEST PERIOD<br>-----> | OIL--BBL.<br>118 | GAS--MCF.<br>+7 | WATER--BBL.<br>139                              |
| FLOW. TUBING PRESS.              | CASING PRESSURE   | CALCULATED 24-HOUR RATE<br>-----> | OIL--BBL.                         | GAS--MCF.        | WATER--BBL.     | GAS-OIL RATIO<br>+59                            |

**34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)**

Sold &amp; Used for Fuel

**TEST WITNESSED BY****35. LIST OF ATTACHMENTS****36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records**

SIGNED

Mandie Crozier

TITLE

Regulatory Specialist

DATE

8/18/2005

MC

\*(See Instructions and Spaces for Additional Data on Reverse Side)

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

| 37. SUMMARY OF POROUS ZONES: (Show all important zones of porosity and contents thereof; cored intervals, and all drill-stem, tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries); |     |        |                                       | 38. GEOLOGIC MARKERS  |                    |                     |
|---|-----|--------|---------------------------------------|-----------------------|--------------------|---------------------|
| FORMATION   | TOP | BOTTOM | DESCRIPTION, CONTENTS, ETC.           | NAME                  | TOP<br>MEAS. DEPTH | TRUE<br>VERT. DEPTH |
|   |     |        | Well Name<br>Jonah Federal 12-14-9-16 | Garden Gulch Mkr      | 3533'              |                     |
|   |     |        |                                       | Garden Gulch 1        | 3741'              |                     |
|   |     |        |                                       | Garden Gulch 2        | 3850'              |                     |
|   |     |        |                                       | Point 3 Mkr           | 4124'              |                     |
|   |     |        |                                       | X Mkr                 | 4362'              |                     |
|   |     |        |                                       | Y-Mkr                 | 4396'              |                     |
|   |     |        |                                       | Douglas Creek Mkr     | 4516'              |                     |
|   |     |        |                                       | BiCarbonate Mkr       | 4751'              |                     |
|   |     |        |                                       | B Limestone Mkr       | 4866'              |                     |
|   |     |        |                                       | Castle Peak           | 5368'              |                     |
|   |     |        |                                       | Basal Carbonate       | 5819'              |                     |
|   |     |        |                                       | Total Depth (LOGGERS) | 5860'              |                     |

|   |   |  |   |   |  |
|---|---|--|---|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |   | <b>FORM 9</b>  |   |   |  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-096547   |   |   |  |
| <b>1. TYPE OF WELL</b><br>Oil Well  |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>   |   |   |  |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY  |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)  |   |   |  |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630 , Myton, UT, 84052  |   | <b>8. WELL NAME and NUMBER:</b><br>JONAH FED 12-14-9-16  |   |   |  |
| <b>4. LOCATION OF WELL FOOTAGES AT SURFACE:</b><br>1816 FSL 0575 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NWSW Section: 14 Township: 09.0S Range: 16.0E Meridian: S   |   | <b>9. API NUMBER:</b><br>43013326820000  |   |   |  |
| <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE  |   | <b>COUNTY:</b><br>DUCHESNE   |   |   |  |
| <b>STATE:</b><br>UTAH   |   |  |   |   |  |
| <b>11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA</b>  |   |  |   |   |  |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>   |  |   |   |  |
| <input checked="" type="checkbox"/> <b>NOTICE OF INTENT</b><br>Approximate date work will start:<br>9/8/2011<br><br><input type="checkbox"/> <b>SUBSEQUENT REPORT</b><br>Date of Work Completion:<br><br><input type="checkbox"/> <b>SPUD REPORT</b><br>Date of Spud:<br><br><input type="checkbox"/> <b>DRILLING REPORT</b><br>Report Date:  | <table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ACIDIZE<br/> <input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br/> <input type="checkbox"/> CHANGE WELL STATUS<br/> <input type="checkbox"/> DEEPEN<br/> <input type="checkbox"/> OPERATOR CHANGE<br/> <input type="checkbox"/> PRODUCTION START OR RESUME<br/> <input type="checkbox"/> REPERFORATE CURRENT FORMATION<br/> <input type="checkbox"/> TUBING REPAIR<br/> <input type="checkbox"/> WATER SHUTOFF<br/> <input type="checkbox"/> WILDCAT WELL DETERMINATION         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> ALTER CASING<br/> <input type="checkbox"/> CHANGE TUBING<br/> <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br/> <input type="checkbox"/> FRACTURE TREAT<br/> <input type="checkbox"/> PLUG AND ABANDON<br/> <input type="checkbox"/> RECLAMATION OF WELL SITE<br/> <input type="checkbox"/> SIDETRACK TO REPAIR WELL<br/> <input type="checkbox"/> VENT OR FLARE<br/> <input type="checkbox"/> SI TA STATUS EXTENSION<br/> <input type="checkbox"/> OTHER         </td> <td style="width: 33%; vertical-align: top;"> <input type="checkbox"/> CASING REPAIR<br/> <input type="checkbox"/> CHANGE WELL NAME<br/> <input checked="" type="checkbox"/> CONVERT WELL TYPE<br/> <input type="checkbox"/> NEW CONSTRUCTION<br/> <input type="checkbox"/> PLUG BACK<br/> <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br/> <input type="checkbox"/> TEMPORARY ABANDON<br/> <input type="checkbox"/> WATER DISPOSAL<br/> <input type="checkbox"/> APD EXTENSION<br/>           OTHER: <span style="border: 1px solid black; padding: 2px;">Put On Injection</span> </td> </tr> </table> |  | <input type="checkbox"/> ACIDIZE<br><input type="checkbox"/> CHANGE TO PREVIOUS PLANS<br><input type="checkbox"/> CHANGE WELL STATUS<br><input type="checkbox"/> DEEPEN<br><input type="checkbox"/> OPERATOR CHANGE<br><input type="checkbox"/> PRODUCTION START OR RESUME<br><input type="checkbox"/> REPERFORATE CURRENT FORMATION<br><input type="checkbox"/> TUBING REPAIR<br><input type="checkbox"/> WATER SHUTOFF<br><input type="checkbox"/> WILDCAT WELL DETERMINATION | <input type="checkbox"/> ALTER CASING<br><input type="checkbox"/> CHANGE TUBING<br><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS<br><input type="checkbox"/> FRACTURE TREAT<br><input type="checkbox"/> PLUG AND ABANDON<br><input type="checkbox"/> RECLAMATION OF WELL SITE<br><input type="checkbox"/> SIDETRACK TO REPAIR WELL<br><input type="checkbox"/> VENT OR FLARE<br><input type="checkbox"/> SI TA STATUS EXTENSION<br><input type="checkbox"/> OTHER | <input type="checkbox"/> CASING REPAIR<br><input type="checkbox"/> CHANGE WELL NAME<br><input checked="" type="checkbox"/> CONVERT WELL TYPE<br><input type="checkbox"/> NEW CONSTRUCTION<br><input type="checkbox"/> PLUG BACK<br><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION<br><input type="checkbox"/> TEMPORARY ABANDON<br><input type="checkbox"/> WATER DISPOSAL<br><input type="checkbox"/> APD EXTENSION<br>OTHER: <span style="border: 1px solid black; padding: 2px;">Put On Injection</span> |
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| <b>12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.</b><br>The above reference well was put on injection at 9:00 PM on 09/08/2011.  |   |  |   |   |  |
| <b>Accepted by the<br/>         Utah Division of<br/>         Oil, Gas and Mining<br/>         FOR RECORD ONLY</b>  |   |  |   |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto   | <b>PHONE NUMBER</b><br>435 646-4874   | <b>TITLE</b><br>Water Services Technician  |   |   |  |
| <b>SIGNATURE</b><br>N/A   | <b>DATE</b><br>9/9/2011   |  |   |   |  |



June 17, 2010

Mr. Dan Jarvis  
State of Utah  
Division of Oil, Gas and Mining  
Post Office Box 145801  
Salt Lake City, Utah 84114-5801

RE: Permit Application for Water Injection Well  
Jonah Federal #12-14-9-16  
Monument Butte Field, Lease #UTU-096547  
Section 14-Township 9S-Range 16E  
Duchesne County, Utah

Dear Mr. Jarvis:

Newfield Production Company herein requests approval to convert the Jonah Federal #12-14-9-16 from a producing oil well to a water injection well in the Monument Butte (Green River) Field.

I hope you find this application complete; however, if you have any questions or require additional information, please contact me at (303) 893-0102.

Sincerely,

A handwritten signature in black ink, appearing to read "Eric Sundberg". The signature is fluid and cursive, with a long horizontal stroke extending to the right.

Eric Sundberg  
Regulatory Lead

RECEIVED

JUN 21 2010

DIV. OF OIL, GAS & MINING

**NEWFIELD PRODUCTION COMPANY**  
**APPLICATION FOR APPROVAL OF CLASS II INJECTION WELL**  
**JONAH FEDERAL #12-14-9-16**  
**MONUMENT BUTTE FIELD (GREEN RIVER) FIELD**  
**LEASE #UTU-096547**  
**JUNE 17, 2010**

**RECEIVED**  
**JUN 21 2010**  
**DIV. OF OIL, GAS & MINING**

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| ATTACHMENT E-5                              | WELLBORE DIAGRAM – JONAH FEDERAL #16-15-9-16       |
| ATTACHMENT E-6                              | WELLBORE DIAGRAM – JONAH FEDERAL #9-15-9-16        |
| ATTACHMENT E-7                              | WELLBORE DIAGRAM – CASTLE PEAK #33-15-9-16         |
| ATTACHMENT E-8                              | WELLBORE DIAGRAM – CASTLE PEAK FEDERAL #42-15-9-16 |
| ATTACHMENT E-9                              | WELLBORE DIAGRAM – JONAH FEDERAL #K-15-9-16        |
| ATTACHMENT E-10                             | WELLBORE DIAGRAM – JONAH #5-14-9-16                |
| ATTACHMENT E-11                             | WELLBORE DIAGRAM – JONAH #6-14-9-16                |
| ATTACHMENT E-12                             | WELLBORE DIAGRAM – JONAH FEDERAL #M-14-9-16        |
| ATTACHMENT E-13                             | WELLBORE DIAGRAM – JONAH FEDERAL #11-14-9-16       |
| ATTACHMENT E-14                             | WELLBORE DIAGRAM – FEDERAL #3-23-9-16              |
| ATTACHMENT E-15                             | WELLBORE DIAGRAM – GOATES #3-14-9-16               |
| ATTACHMENT E-16                             | WELLBORE DIAGRAM – JONAH #G-14-9-16                |
| ATTACHMENT E-17                             | WELLBORE DIAGRAM – JONAH FEDERAL #N-14-9-16        |
| ATTACHMENT F                                | WATER ANALYSIS                                     |
| ATTACHMENT G                                | FRACTURE GRADIENT CALCULATIONS                     |
| ATTACHMENT G-1                              | FRACTURE REPORTS DATED 7/1/05-7/13/05              |
| ATTACHMENT H                                | WORK PROCEDURE FOR PROPOSED PLUG AND ABANDON       |
| ATTACHMENT H-1                              | WELLBORE DIAGRAM OF PROPOSED PLUGGED WELL          |

Comments:

# Jonah Federal 12-14-9-16

Spud Date: 5-28-05  
Put on Production: 7-12-05  
GL: 5682' KB: 5694'

Initial Production: BOPD 118,  
MCFD 7, BWPD 139

## Proposed Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (302.88')  
DEPTH LANDED: 314.73' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (5830.79')  
DEPTH LANDED: 5844.04' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 250'

### TUBING

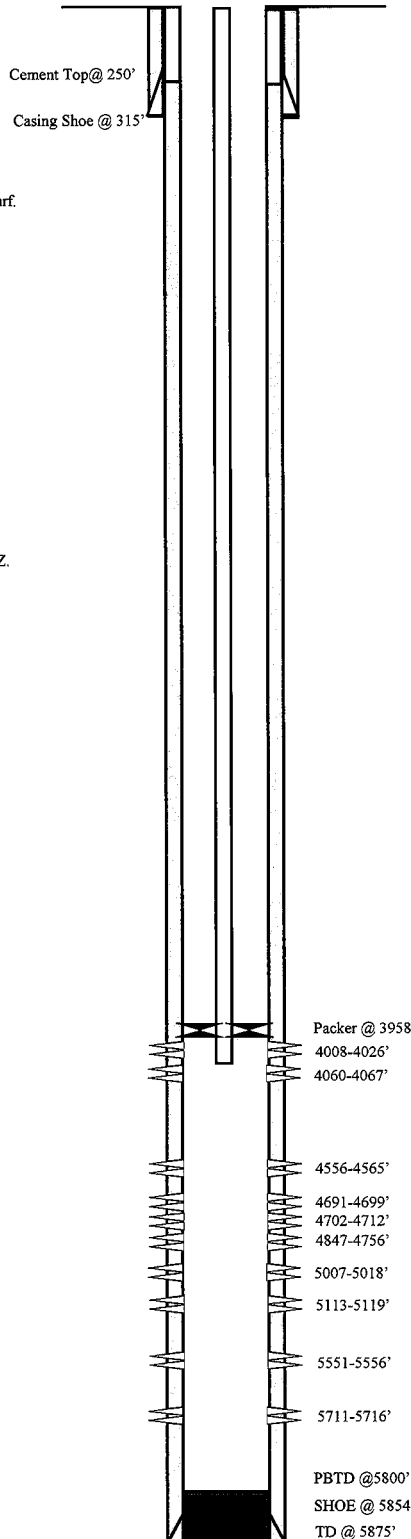
SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 172 jts (5598.50')  
TUBING ANCHOR: 5610.50' KB  
NO. OF JOINTS: 1 jts (32.52')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5645.82' KB  
NO. OF JOINTS: 2 jts (64.39')  
TOTAL STRING LENGTH: EOT @ 5711.76' KB

### FRAC JOB

|         |            |  |
|---------|------------|--|
| 6-30-05 | 5551-5716' | <b>Frac CP3 &amp; CP5 sand as follows:</b><br>25908#s 20/40 sand in 306 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1599 psi<br>w/avg rate of 25 BPM. ISIP 1775 psi. Calc<br>flush: 5549 gal. Actual flush: 5552 gal.    |
| 7-5-05  | 5007-5119' | <b>Frac A1 &amp; LODC sand as follows:</b><br>45,085#s 20/40 sand in 409 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1818 psi<br>w/avg rate of 24.9 BPM. ISIP 1900 psi. Calc<br>flush: 5005 gal. Actual flush: 4788 gal. |
| 7-6-05  |            | <b>Frac B2</b><br>Decision was made to skip Stage #3.  |
| 7-6-05  | 4691-4712' | <b>Frac C, sand as follows:</b><br>99846#s 20/40 sand in 706 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1733 psi<br>w/avg rate of 25 BPM. ISIP 1750 psi. Calc<br>flush: 4689 gal. Actual flush: 4490 gal.               |
| 7-6-05  | 4556-4565' | <b>Frac D1 sand as follows:</b><br>54,984#s 20/40 sand in 446 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1773 psi<br>w/avg rate of 25 BPM. ISIP 1820 psi. Calc<br>flush: 4554 gal. Actual flush: 4334 gal.              |
| 7-6-05  | 4008-4067' | <b>Frac GB2 &amp; GB4 sand as follows:</b><br>60,730#s 20/40 sand in 457 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1425 psi<br>w/avg rate of 25 BPM. ISIP 1650 psi. Calc<br>flush: 4006 gal. Actual flush: 3901 gal.   |
| 8-8-05  |            | Pump Change. Update tubing and rod detail.   |
| 7/1/08  |            | pump change. Updated rod and tubing detail.  |

### PERFORATION RECORD

|         |            |        |          |
|---------|------------|--------|----------|
| 6-30-05 | 5551-5556' | 4 JSPF | 20 holes |
| 6-30-05 | 5711-5716' | 4 JSPF | 20 holes |
| 7-5-05  | 5007-5018' | 4 JSPF | 44 holes |
| 7-2-05  | 5113-5556' | 4 JSPF | 24 holes |
| 7-6-05  | 4847-4856' | 4 JSPF | 36 holes |
| 7-6-05  | 4691-4699' | 4 JSPF | 32 holes |
| 7-6-05  | 4702-4712' | 4 JSPF | 40 holes |
| 7-6-05  | 4556-4565' | 4 JSPF | 36 holes |
| 7-6-05  | 4060-4067' | 4 JSPF | 28 holes |
| 7-6-05  | 4008-4026' | 4 JSPF | 72 holes |



**Jonah Federal 12-14-9-16**  
1816' FSL & 575' FWL  
NW/SW Section 14-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32682; Lease #UTU-096547



## **WORK PROCEDURE FOR INJECTION CONVERSION**

1. Rig up hot oil truck to casing. Pump water. Unseat pump. Flush rods. Trip out of hole with rods and pump.
2. Trip out of hole with tubing, breaking and doping every connection. Trip in hole with packer and tubing. Rig up water truck to casing. Pump packer fluid. Set packer.
3. Test casing and packer.
4. Rig down and move out.

**REQUIREMENTS FOR INJECTION OF FLUIDS INTO RESERVOIRS  
RULE R615-5-1**

- 1. Operations to increase ultimate recovery, such as cycling of gas, the maintenance of pressure, the introduction of gas, water or other substances into a reservoir for the purpose of secondary or other enhanced recovery or for storage and the injection of water into any formation for the purpose of water disposal shall be permitted only by order of the Board after notice and hearing.**
- 2. A request for agency action for authority for the injection of gas, liquified petroleum gas, air, water or any other medium into any formation for any reason, including but not necessarily limited to the establishment of or the expansion of waterflood projects, enhanced recovery projects, and pressure maintenance projects shall contain:**

**2.1 The name and address of the operator of the project.**

Newfield Production Company  
1001 17<sup>th</sup> Street, Suite 2000  
Denver, Colorado 80202

**2.2 A plat showing the area involved and identifying all wells, including all proposed injection wells, in the project area and within one-half mile of the project area.**

See Attachment A.

**2.3 A full description of the particular operation for approval is requested.**

Approval is requested to convert the Jonah Federal #12-14-9-16 from a producing oil well to a water injection well in Monument Butte (Green River) Field.

**2.4 A description of the pools from which the identified wells are producing or have produced.**

The proposed injection well will inject into the Green River Formation.

**2.5 The names, description and depth of the pool or pools to be affected.**

The injection zone is in the Green River Formation. For the Jonah Federal #12-14-9-16 well, the proposed injection zone is from Garden Gulch to Castle Peak (3850' - 5800'). The confining strata directly above and below the injection zones are the Garden Gulch and the top of the Wasatch Formation or TD, which ever is shallower. The Garden Gulch Marker top is at 3533' and the TD is at 5875'.

**2.6 A copy of a log of a representative well completed in the pool.**

The referenced log for the Jonah Federal #12-14-9-16 is on file with the Utah Division of Oil, Gas and Mining.

- 2.7 A statement as to the type of fluid to be used for injection, its source and the estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The average estimated injection of fluids will be at a rate of 300 BPD, and the estimated maximum injection will be at a rate of 500 BPD.

- 2.8 A list of all operators and surface owners within one-half mile radius of the proposed project.**

See Attachment B.

- 2.9 An affidavit certifying that said operators or owners and surface owners within a one-half mile radius have been provided a copy of the petition for injection.**

See Attachment C.

- 2.10 Any additional information the Board may determine is necessary to adequately review the petition.**

Newfield Production Company will supply any additional information requested by the Utah Division of Oil, Gas and Mining.

- 4.0 Establish recovery projects may be expanded and additional wells placed on injection only upon authority from the Board after notice and hearing or by administrative approval.**

This proposed injection well is on a Federal lease (Lease #UTU-096547) in the Monument Butte Federal (Green River) Field, and this request is for administrative approval.

**REQUIREMENTS FOR CLASS II INJECTION WELLS INCLUDING WATER DISPOSAL,  
STORAGE AND ENHANCED RECOVERY WELLS  
SECTION V – RULE R615-5-2**

- 1. Injection well shall be completed, equipped, operated, and maintained in a manner that will prevent pollution and damage to any USDW, or other resources and will confine injected fluids to the interval approved.**
- 2. The application for an injection well shall include a properly completed Form DOGM-UIC-1 and the following:**

- 2.1 A plat showing the location of the injection well, all abandoned or active wells within a one-half mile radius of the proposed wells, and the surface owner and the operator of any lands or producing leases, respectively, within a one-half mile radius of the proposed injection well.**

See Attachments A and B.

- 2.2 Copies of electrical or radioactive logs, including gamma ray logs, for the proposed well run prior to the installation of casing and indicating resistivity, spontaneous potential, caliper and porosity.**

All logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.3 A copy of a cement bond or comparable log run for the proposed injection well after casing was set and cemented.**

A copy of the cement bond log is on file with the Utah Division of Oil, Gas and Mining.

- 2.4 Copies of logs already on file with the Division should be referenced, but need not be refiled.**

All copies of logs are on file with the Utah Division of Oil, Gas and Mining.

- 2.5 A description of the casing or proposed casing program of the injection well and of the proposed method for testing the casing before use of the well.**

The casing program is 8-5/8", 24# surface casing run to 315' KB, and 5-1/2", 15.5# casing run from surface to 5844' KB. A casing integrity test will be conducted at the time of conversion. See Attachment E.

- 2.6 A statement as to the type of fluid to be used for injection, its source and estimated amounts to be injected daily.**

The primary type and source of fluid to be used for injection will be culinary water commingled with produced water. The estimated average rate of injection will be 300 BPD, and the estimated maximum rate of injection will be 500 BPD.

- 2.7 Standard laboratory analysis of the fluid to be injected, the fluid in the formation into which the fluid is being injected, and the compatibility of the fluids.**

See Attachment F.

**The proposed average and maximum injection pressures.**

The proposed average injection pressure will be approximately 1100 psig and the maximum injection pressure will not exceed 1624 psig.

**2.8 Evidence and data to support a finding that the proposed injection well will not initiate fractures through the overlying strata or a confining interval that could enable the injected fluid or formation fluid to enter the fresh water strata.**

The minimum fracture gradient for the Jonah Federal #12-14-9-16, for existing perforations (4008' - 5716') calculates at .84 psig/ft. The maximum injection pressures will be limited so as not to exceed this gradient. A step rate test will be performed periodically to ensure we are below parting pressure. The proposed maximum injection pressure is 1624 psig. We may add additional perforations between 3533' and 5875'. See Attachments G and G-1.

**2.9 Appropriate geological data on the injection interval and confining beds, including the geologic name, lithologic description, thickness, depth, and lateral extent.**

In the Jonah Federal #12-14-9-16, the proposed injection zone (3850' - 5800') is in the Garden Gulch to the Castle Peak of the Green River Formation. The reservoir is a very fine-grained sandstone with minor imbedded shale streaks. The estimated porosity is 13%. The members are composed of porous and permeable lenticular calcareous sandstone and low porosity carbonates and calcareous shale. The porous and lenticular sandstone varies in thickness from 0-31' and is confined to the Monument Butte Federal Field. Outside the Monument Butte Federal Field, the sandstone is composed of tight, very fine, silty, calcareous sandstone, less than 3' thick. The stratum confining the injection zone is composed of tight, moderately calcareous, sandy lacustrine shale. All of the confining strata are impermeable, and will effectively seal off the oil, gas, and water of the injection zone from any strata directly above or below it.

**2.10 A review of the mechanical condition of each well within a one-half mile radius of the proposed injection well to assure that no conduit exists that could enable fluids to migrate up or down the wellbore and enter the improper intervals.**

See Attachments E through E-17.

Additionally, the injection system will be equipped with high and low pressure shut down devices that will automatically shut in injection waters if a system blockage or leakage occurs. One way check valves will also ensure proper flow management. Relief valves will also be utilized for high-pressure relief.

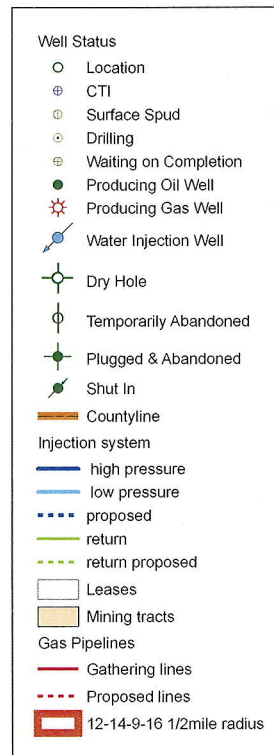
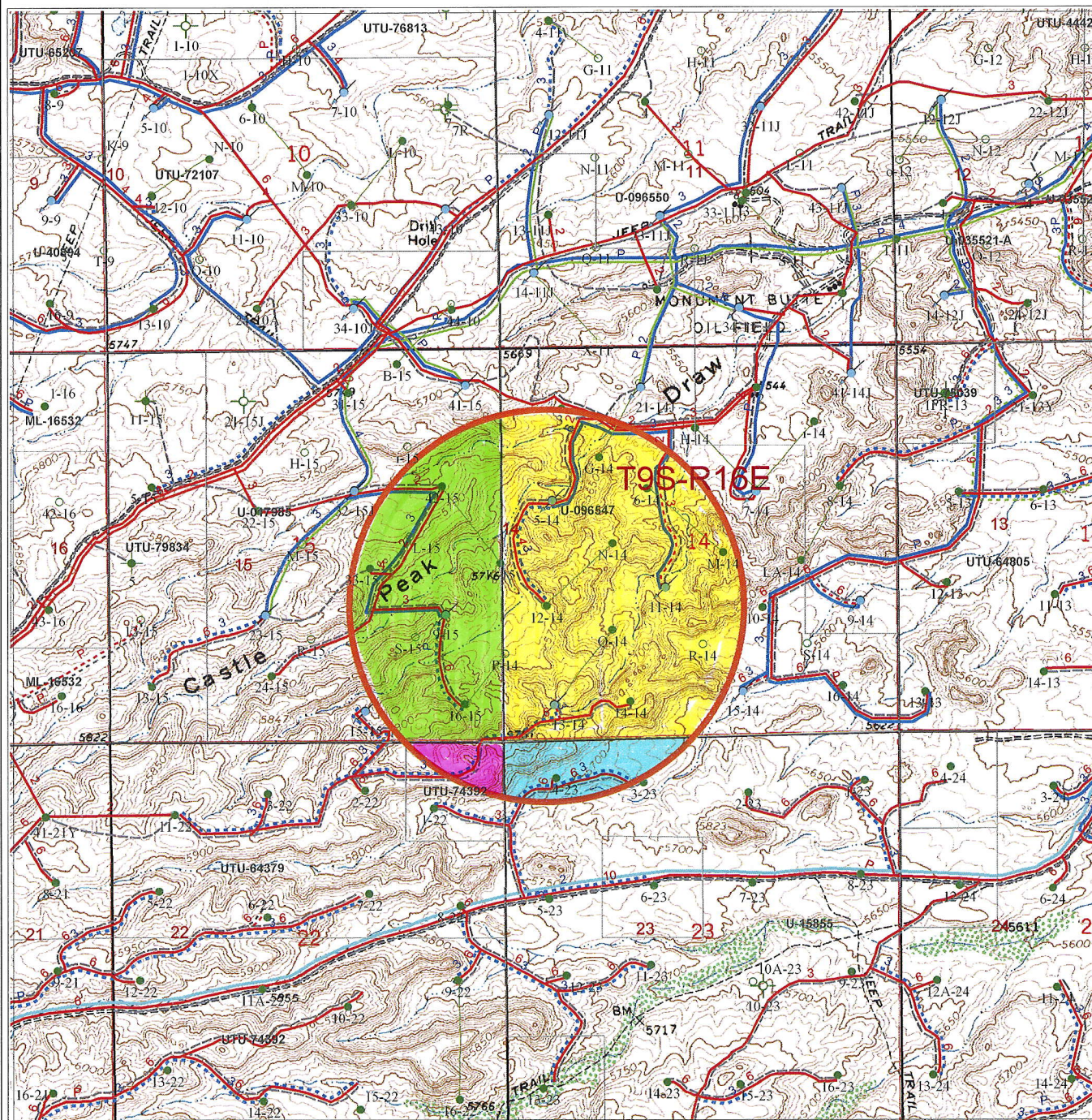
**2.11 An affidavit certifying that a copy of the application has been provided to all operators or owners, and surface owners within a one-half mile radius of the proposed injection well.**

See Attachment C.

**2.12 Any other information that the Board or Division may determine is necessary to adequately review the application.**

Newfield Production Company will supply any requested information to the Board or Division.





UTU-09654

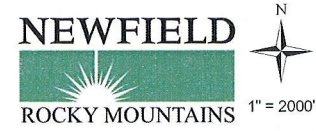
UTU-017983

UTU-741392

UTU-15855

Attachment A

Jonah Federal 12-14-9-16  
Section 14, T9S-R16E



1/2 Mile Radius Map  
Duchesne & Uintah Counties

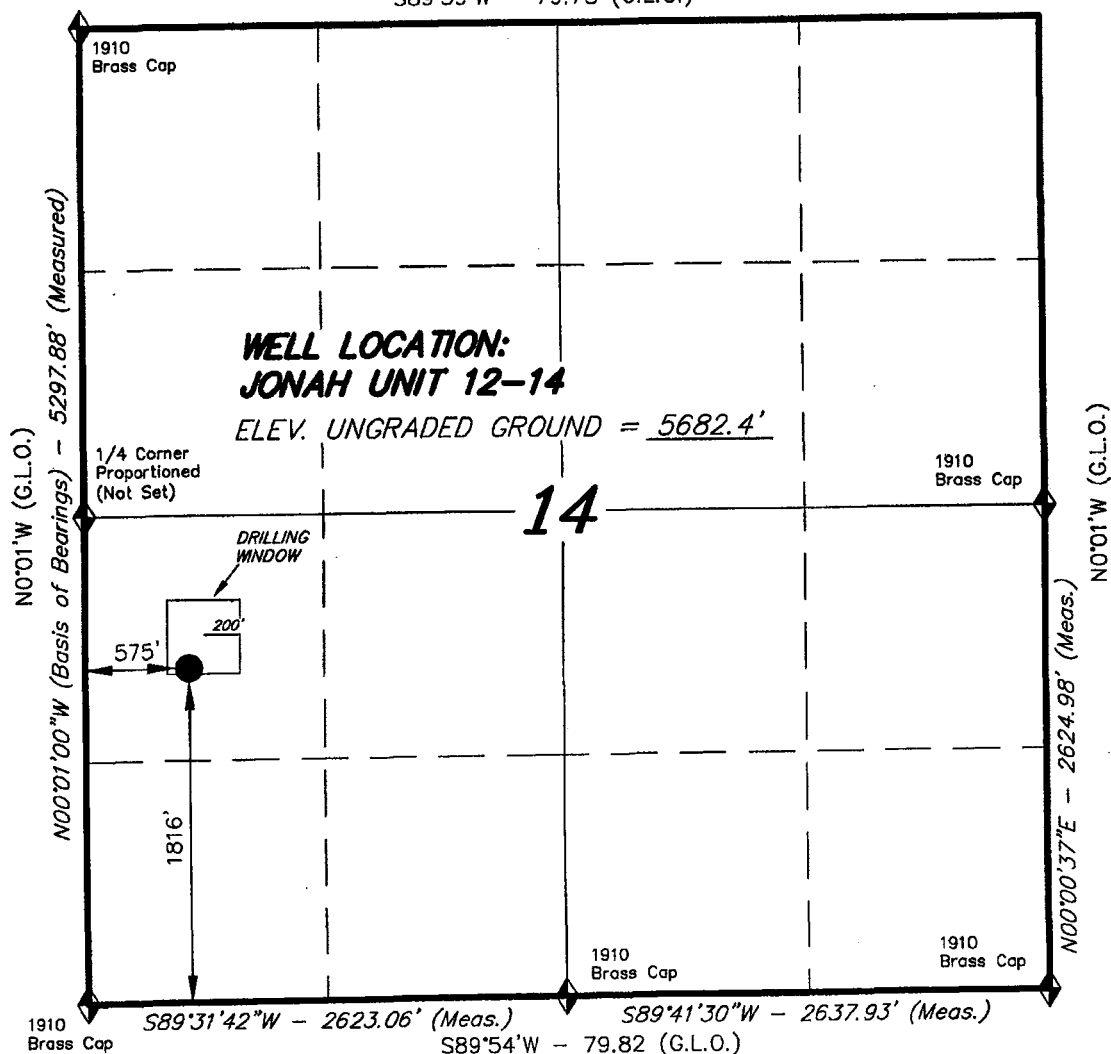
1001 17th Street Suite 2000  
Denver, Colorado 80202  
Phone: (303) 893-0102

February 24, 2010



**T9S, R16E, S.L.B.&M.**

S89°59'W - 79.78 (G.L.O.)



◆ = SECTION CORNERS LOCATED

BASIS OF ELEV; U.S.G.S. 7-1/2 min QUAD (MYTON SE)

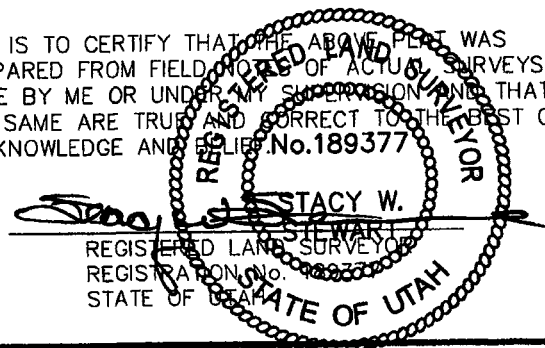
**INLAND PRODUCTION COMPANY**

WELL LOCATION, JONAH UNIT 12-14,  
LOCATED AS SHOWN IN THE NW 1/4 SW  
1/4 OF SECTION 14, T9S, R16E,  
S.L.B.&M. DUCHESNE COUNTY, UTAH.

Attachment A-1



THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS  
PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS  
MADE BY ME OR UNDER MY SUPERVISION AND THAT  
THE SAME ARE TRUE AND CORRECT TO THE BEST OF  
MY KNOWLEDGE AND BELIEF. No. 189377



**TRI STATE LAND SURVEYING & CONSULTING**

180 NORTH VERNAL AVE. - VERNAL, UTAH 84078  
(435) 781-2501

|                   |                     |
|-------------------|---------------------|
| SCALE: 1" = 1000' | SURVEYED BY: D.J.S. |
| DATE: 7-6-04      | DRAFTED BY: F.T.M.  |
| NOTES:            | FILE #              |

## EXHIBIT B

| # | Legal Description  | Lessor & Expiration      | Lessee & Operating Rights  | Surface Owner |
|---|--|--------------------------|--|---------------|
| 1 | <u>Township 9 South, Range 16 East SLM</u><br>Section 11: W2SW, SESW<br>Section 14: W2, SWNE, W2SE, SESE   | USA<br>UTU-096547<br>HBP | Newfield Production Company<br>Newfield RMI LLC  | USA           |
| 2 | <u>Township 9 South, Range 16 East SLM</u><br>Section 10: S2SE<br>Section 15: E2, E2W2   | USA<br>UTU-017985<br>HBP | Newfield Production Company<br>Newfield RMI LLC  | USA           |
| 3 | <u>Township 9 South, Range 16 East SLM</u><br>Section 21: S2<br>Section 22: NENE, S2<br>Section 23: SWSW<br>Section 24: SESE<br>Section 26: NENE<br>Section 27: All<br>Section 28: All | USA<br>UTU-74392<br>HBP  | Newfield Production Company<br>Newfield RMI LLC<br>Yates Petroleum Corporation<br>Yates Drilling Company<br>ABO Petroleum Corporation<br>MYCO Industries, Inc.                 | USA           |
| 4 | <u>Township 9 South, Range 16 East SLM</u><br>Section 23: E2, NW, E2SW, NWSW<br>Section 24: N2, SW, N2SE, SWSE   | USA<br>UTU-15855<br>HBP  | Newfield Production Company<br>Newfield RMI LLC<br>Bee Hive Oil LLC<br>Journey Properties LLC<br>King Oil & Gas of Texas, Ltd.<br>Six Gold Oil LLC<br>Stone Energy Corporation | USA           |




ATTACHMENT C

CERTIFICATION FOR SURFACE OWNER NOTIFICATION

RE: Application for Approval of Class II Injection Well  
Jonah Federal #12-14-9-16


I hereby certify that a copy of the injection application has been provided to all surface owners within a one-half mile radius of the proposed injection well.

Signed: \_\_\_\_\_

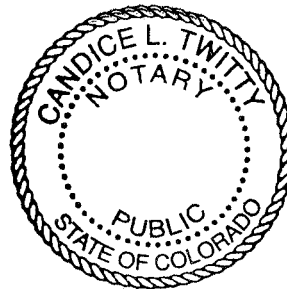
  
Newfield Production Company  
Eric Sundberg  
Regulatory Lead

Sworn to and subscribed before me this 17th day of June, 2010.

Notary Public in and for the State of Colorado: \_\_\_\_\_



My Commission Expires: 02/10/2013



## Jonah Federal 12-14-9-16

Spud Date: 5-28-05  
Put on Production: 7-12-05  
GL: 5682' KB: 5694'

## Wellbore Diagram

Initial Production: BOPD 118,  
MCFD 7, BWPD 139

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (302.88')  
DEPTH LANDED: 314.73' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (5830.79')  
DEPTH LANDED: 5844.04' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 250'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 172 jts (5598.50')  
TUBING ANCHOR: 5610.50' KB  
NO. OF JOINTS: 1 jts (32.52')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5645.82' KB  
NO. OF JOINTS: 2 jts (64.39')  
TOTAL STRING LENGTH: EOT @ 5711.76' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 22' polished rod  
SUCKER RODS: 1-2", 6' x 3/4" pony subs, 100- 3/4" scraped rods, 109-3/4" plain rods, 10-3/4" scraped rods, 6-1 1/2" weight rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 10"x14" RHAC CDI rod pump  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5 SPM

FRAC JOB

6-30-05 5551-5716' **Frac CP3 & CP5 sand as follows:**  
25908#'s 20/40 sand in 306 bbls Lightning  
17 frac fluid. Treated @ avg press of 1599 psi  
w/avg rate of 25 BPM. ISIP 1775 psi. Calc  
flush: 5549 gal. Actual flush: 5552 gal.

7-5-05 5007-5119' **Frac A1 & LODC sand as follows:**  
45,085#'s 20/40 sand in 409 bbls Lightning  
17 frac fluid. Treated @ avg press of 1818 psi  
w/avg rate of 24.9 BPM. ISIP 1900 psi. Calc  
flush: 5005 gal. Actual flush: 4788 gal.

7-6-05 **Frac B2**  
Decision was made to skip Stage #3.

7-6-05 4691-4712' **Frac C, sand as follows:**  
99846#'s 20/40 sand in 706 bbls Lightning  
17 frac fluid. Treated @ avg press of 1733 psi  
w/avg rate of 25 BPM. ISIP 1750 psi. Calc  
flush: 4689 gal. Actual flush: 4490 gal.

7-6-05 4556-4565' **Frac D1 sand as follows:**  
54,984#'s 20/40 sand in 446 bbls Lightning  
17 frac fluid. Treated @ avg press of 1773 psi  
w/avg rate of 25 BPM. ISIP 1820 psi. Calc  
flush: 4554 gal. Actual flush: 4334 gal.

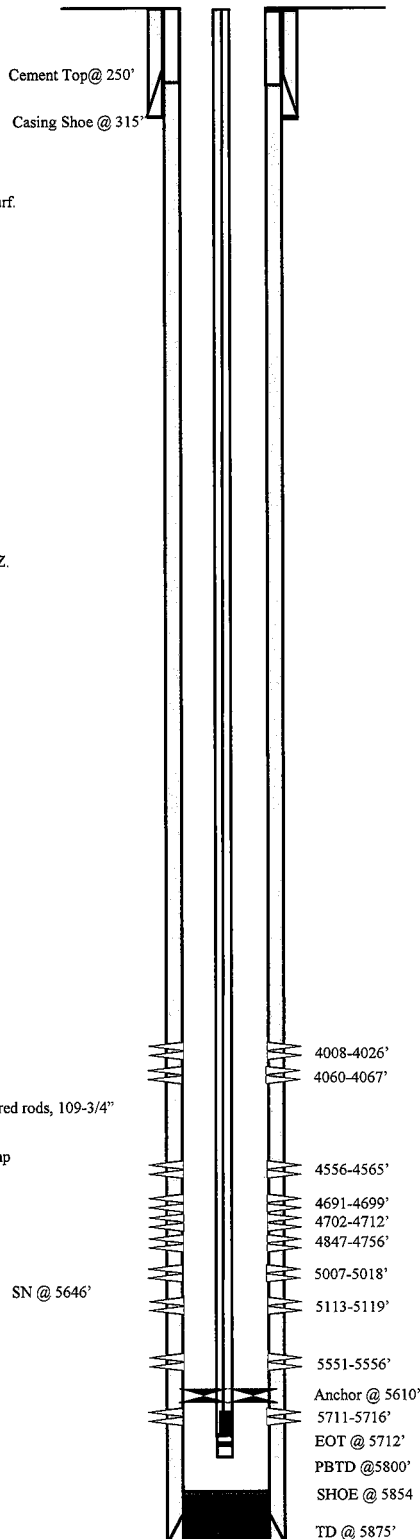
7-6-05 4008-4067' **Frac GB2 & GB4 sand as follows:**  
60,730#'s 20/40 sand in 457 bbls Lightning  
17 frac fluid. Treated @ avg press of 1425 psi  
w/avg rate of 25 BPM. ISIP 1650 psi. Calc  
flush: 4006 gal. Actual flush: 3901 gal.

8-8-05 Pump Change. Update tubing and rod detail.

7/1/08 pump change. Updated rod and tubing detail.

PERFORATION RECORD

|         |            |        |          |
|---------|------------|--------|----------|
| 6-30-05 | 5551-5556' | 4 JSPF | 20 holes |
| 6-30-05 | 5711-5716' | 4 JSPF | 20 holes |
| 7-5-05  | 5007-5018' | 4 JSPF | 44 holes |
| 7-2-05  | 5113-5556' | 4 JSPF | 24 holes |
| 7-6-05  | 4847-4856' | 4 JSPF | 36 holes |
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| 7-6-05  | 4060-4067' | 4 JSPF | 28 holes |
| 7-6-05  | 4008-4026' | 4 JSPF | 72 holes |



**Jonah Federal 12-14-9-16**  
1816' FSL & 575' FWL  
NW/SW Section 14-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32682; Lease #UTU-096547

## Federal 4-23-9-16

Spud Date: 01-09-08  
Put on Production: 3-10-08  
GL: 5716' KB: 5728'

## Wellbore Diagram

SURFACE CASING

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (312.55')  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

PRODUCTION CASING

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 133jts. (5715.22')  
HOLE SIZE: 7-7/8"  
TOTAL DEPTH: 5728.47'  
CEMENT DATA: 300 sk Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 134'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 175 jts (5507.16')  
TUBING ANCHOR: 5519.16'  
NO. OF JOINTS: 1 jts (31.39')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5553.35' KB  
NO. OF JOINTS: 1 jts (31.48')  
TOTAL STRING LENGTH: EOT @ 5586.38' w/12' KB

SUCKER RODS

POLISHED ROD: 1-1/2" x 26'  
SUCKER RODS: 1-6', 1-4' & 1-2' X 3/4" ponies, 100-3/4" guided rods, 95- 3/4" plain rods, 20-3/4" guided rods, 6- 1 1/2" weighted bars.  
PUMP SIZE: 2-1/2" x 1-1/2" x 12' X 15.5' RHAC pump w/ SM plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4

FRAC JOB

2-29-08 5547-5562' **Frac CP4 sands as follows:**  
Frac with 40523# 20/40 sand in 434 bbls Lightning 17 fluid. Treat at an ave pressure of 1786 psi @ 23.2 BPM. ISIP 1970 psi.

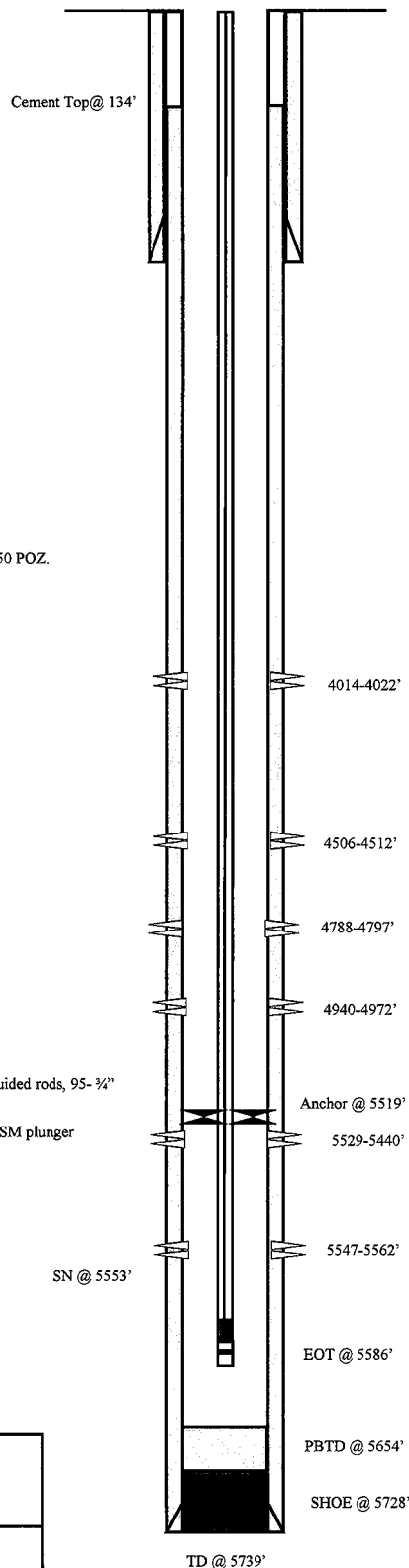
2-29-08 5429-5440' **Frac CP2 sands as follows:**  
Frac with 20386 # 20/40 sand in 333 bbls Lightning 17 fluid. Treat at an ave pressure of 1963 psi @ 25 BPM. ISIP 1840 psi.

2-29-08 4940-4972' **Frac A1 sands as follows:**  
Frac with 120556 #'s 20/40 sand in 869 bbls Lightning 17 fluid. Treat at an ave pressure of 1845 psi @ 24.5 BPM. ISIP 2105 psi.

2-29-08 4788-4797' **Frac B2 sand as follows:**  
Frac with 50665 #'s of 20/40 sand in 450 bbls Lightning 17 fluid. Treat at an ave pressure of 1990 psi @ 24.5 BPM. ISIP 1945 psi.

2-29-08 4506-4512' **Frac D1 sands as follows:**  
Frac with 15200 #'s 20/40 sand in 259 bbls Lightning 17 fluid. Treat at an ave pressure of 1942 psi @ 24.3 BPM. ISIP 1825 psi.

2-29-08 4014-4022' **Frac GB6 sands as follows:**  
Frac with 40122 #'s 20/40 sand in 384 bbls Lightning 17 fluid. Treat at an ave pressure of 2036 psi @ 24.3 BPM. ISIP 1880 psi.

PERFORATION RECORD

|            |        |           |
|------------|--------|-----------|
| 4014-4022' | 4 JSPF | 32 holes  |
| 4506-4512' | 4 JSPF | 24 holes  |
| 4788-4797' | 4 JSPF | 36 holes  |
| 4940-4972' | 4 JSPF | 128 holes |
| 5429-5440' | 4 JSPF | 44 holes  |
| 5547-5562' | 4 JSPF | 60 holes  |



**Federal 4-23-9-16**  
499' FNL & 685' FWL  
NWNW Section 23-T9S-R16E  
Duchesne Co, Utah  
API #43-013-33177; Lease #UTU-15855

## Jonah Federal 13-14-9-16

Spud Date: 5/21/05  
Put on Production: 7/1/05

GL: 5758' KB: 5780'

**SURFACE CASING**

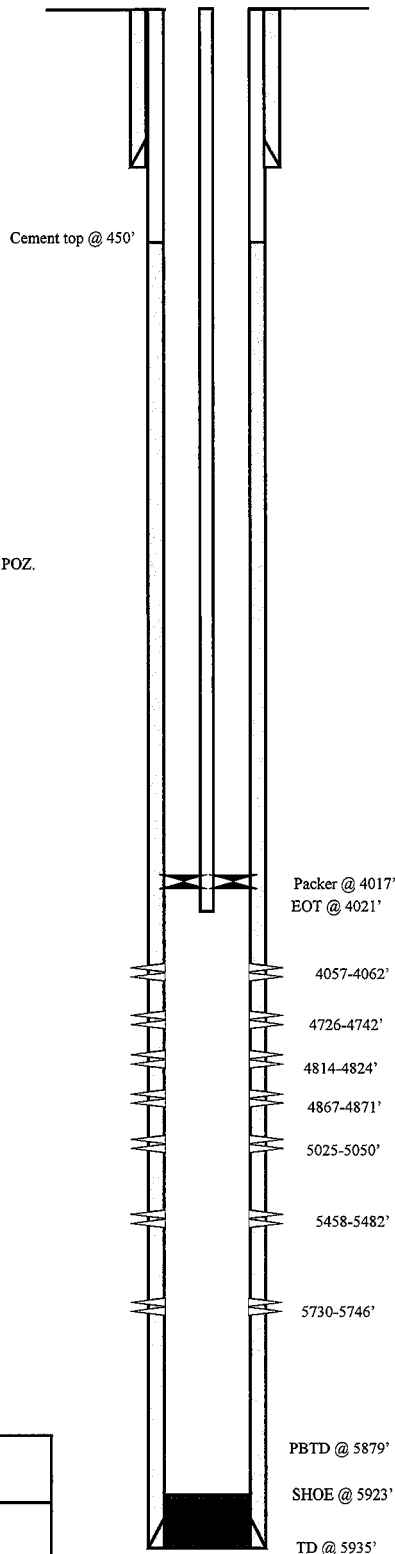
CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (303.95')  
DEPTH LANDED: 313.95' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 137 jts. (5925.19')  
DEPTH LANDED: 5923.19' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 450'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 123 jts (4001.11')  
SN LANDED AT: 1.10' @ 4014.21'  
CE @ 4017.51'  
TOTAL STRING LENGTH: EOT @ 4021.58' w/12' KB

**Injection Wellbore Diagram**

Initial Production: 171 BOPD,  
14 MCFD, 151 BWPD

**FRAC JOB**

|          |            |  |
|----------|------------|--|
| 6-27-05  | 5730-5746' | <b>Frac CP5 sands as follows:</b><br>58406# 20/40 sand in 503 bbls Lightning 17 frac fluid. Treated @ avg press of 1678 psi w/avg rate of 25 BPM. ISIP 2200 psi. Calc flush: 5728 gal. Actual flush: 5712 gal.           |
| 6-27-05  | 5458-5482' | <b>Frac CP1 sands as follows:</b><br>78805# 20/40 sand in 609 bbls Lightning 17 frac fluid. Treated @ avg press of 1654 psi w/avg rate of 24.7 BPM. ISIP 2400 psi. Calc flush: 5456 gal. Actual flush: 5462 gal.         |
| 6-27-05  | 5025-5050' | <b>Frac A1/A3 sands as follows:</b><br>108479# 20/40 sand in 876 bbls Lightning 17 frac fluid. Treated @ avg press of 1560 psi w/avg rate of 24.7 BPM. ISIP 2300 psi. Calc flush: 5023 gal. Actual flush: 5082 gal.      |
| 6-27-05  | 4814-4871' | <b>Frac B2 &amp; B1 sands as follows:</b><br>43548# 20/40 sand in 339 bbls Lightning 17 frac fluid. Treated @ avg press of 1606 psi w/avg rate of 24.6 BPM. ISIP 2150 psi. Calc flush: 4812 gal. Actual flush: 4872 gal. |
| 6-27-05  | 4726-4742' | <b>Frac C sands as follows:</b><br>68949# 20/40 sand in 538 bbls Lightning 17 frac fluid. Treated @ avg press of 1590 psi w/avg rate of 24.5 BPM. ISIP 2100 psi. Calc flush: 4724 gal. Actual flush: 4704 gal.           |
| 6-27-05  | 4057-4062' | <b>Frac GB4 sands as follows:</b><br>12976# 20/40 sand in 203 bbls Lightning 17 frac fluid. Treated @ avg press of 1956 psi w/avg rate of 24.7 BPM. ISIP 1850 psi. Calc flush: 4055 gal. Actual flush: 4704 gal.         |
| 07/07/06 |            | <b>Pump Change:</b> Updated rod and tbg detail.  |
| 01-09-07 |            | <b>Pump Change:</b> Updated rod and tbg detail.  |
| 10/20/08 |            | <b>Convert to Injection well</b>   |
| 10/24/08 |            | <b>MIT Completed - tbg detail updated</b>  |

**PERFORATION RECORD**

|         |            |        |           |
|---------|------------|--------|-----------|
| 6-22-05 | 5730-5746' | 4 JSPF | 64 holes  |
| 6-27-05 | 5458-5482' | 4 JSPF | 96 holes  |
| 6-27-05 | 5025-5050' | 4 JSPF | 100 holes |
| 6-27-05 | 4867-4871' | 4 JSPF | 16 holes  |
| 6-27-05 | 4814-4824' | 4 JSPF | 40 holes  |
| 6-27-05 | 4726-4742' | 4 JSPF | 64 holes  |
| 6-27-05 | 4057-4062' | 4 JSPF | 20 holes  |

**NEWFIELD****Jonah Federal 13-14-9-16**

484' FSL &amp; 688' FWL

SW/SW Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-32696; Lease #UTU-096547

## Jonah Federal 14-14-9-16

Spud Date: 10-11-05  
Put on Production: 11-22-05

GL: 5740' KB: 5752'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (301.68')  
DEPTH LANDED: 312.58' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

**PRODUCTION CASING**

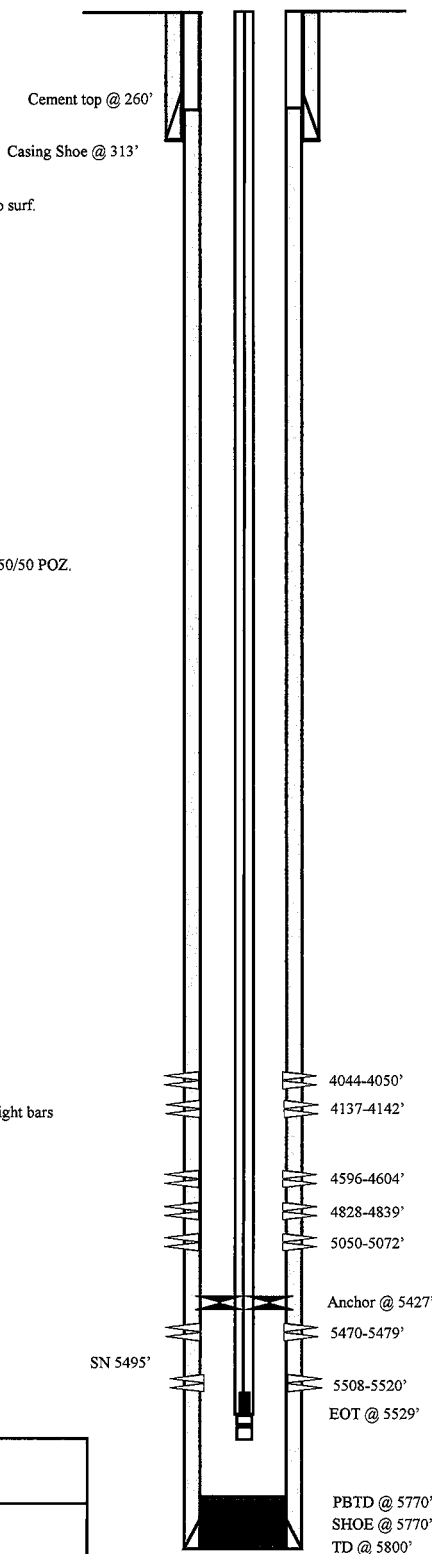
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 130 jts. (5761.28')  
DEPTH LANDED: 5774.53' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 425 sxs 50/50 POZ.  
CEMENT TOP AT: 260'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 /  
NO. OF JOINTS: 168 jts (5417.0')  
TUBING ANCHOR: 5427'  
NO. OF JOINTS: 2 jts (64.9')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5494.7'  
NO. OF JOINTS: 1 jts (32.4')  
TOTAL STRING LENGTH: EOT @ 5529'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22' SM  
SUCKER RODS: 214-3/4" guided rods (4 per), 6- 1 1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-1/2" x 12' x 16' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 4

**Wellbore Diagram**

Initial Production: BOPD,  
MCFD, BWPD

**FRAC JOB**

11-14-05 5470-5520' **Frac CP1, & CP2 sands as follows:**  
30835# 20/40 sand in 393 bbls Lightning 17 frac fluid. Treated @ avg press of 2008 psi w/avg rate of 25 BPM. ISIP 1850 psi. Calc flush: 5468 gal. Actual flush: 5460 gal.

11-15-05 5050-5072' **Frac A1 sands as follows:**  
100886# 20/40 sand in 724 bbls Lightning 17 frac fluid. Treated @ avg press of 1800 psi w/avg rate of 25.1 BPM. ISIP 2130 psi. Calc flush: 5048 gal. Actual flush: 5082 gal.

11-15-05 4828-4839' **Frac B1 sands as follows:**  
70362# 20/40 sand in 537 bbls Lightning 17 frac fluid. Treated @ avg press of 1905 psi w/avg rate of 25.1 BPM. ISIP 2060 psi. Calc flush: 4826 gal. Actual flush: 4872 gal.

11-15-05 4596-4604' **Frac D1 sands as follows:**  
28955# 20/40 sand in 336 bbls Lightning 17 frac fluid. Treated @ avg press of 1758 w/ avg rate of 14.5 BPM. ISIP 1900 psi. Calc flush: 4594 gal. Actual flush: 4518 gal.

11-15-05 4044-4142' **Frac GB4, & GB6 sands as follows:**  
31600# 20/40 sand in 333 bbls Lightning 17 frac fluid. Treated @ avg press of 1790 w/avg rate of 25.1 BPM. ISIP 1770 psi. Calc flush: 4042 gal. Actual flush: 3948 gal.

05/02/07 **Tubing Leak** Rod & Tubing detail updated.  
09/11/07 **Tubing Leak** Rod & Tubing detail updated.  
7-21-08 **Tubing Leak** Tubing Leak. Updated rod & tubing details.  
1/29/10 **Tubing Leak** Parted rods. Updated rod and tubing detail.

**PERFORATION RECORD**

|          |            |        |          |
|----------|------------|--------|----------|
| 11-10-05 | 5508-5520' | 4 JSPF | 48 holes |
| 11-10-05 | 5470-5479' | 4 JSPF | 36 holes |
| 11-14-05 | 5050-5072' | 4 JSPF | 88 holes |
| 11-15-05 | 4828-4839' | 4 JSPF | 44 holes |
| 11-15-05 | 4596-4604' | 4 JSPF | 32 holes |
| 11-15-05 | 4137-4142' | 4 JSPF | 20 holes |
| 11-15-05 | 4044-4050' | 4 JSPF | 24 holes |

**NEWFIELD****Jonah Federal 14-14-9-16**

507' FSL &amp; 1684' FWL

SE/SW Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-32697; Lease #UTU-96547

## Jonah Fed Q-14-9-16

Spud Date: 12/6/2008  
Put on Production: 1/26/2009

GL: 5760' KB: 5772'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (315')  
DEPTH LANDED: 327.16' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx class 'g'

**PRODUCTION CASING**

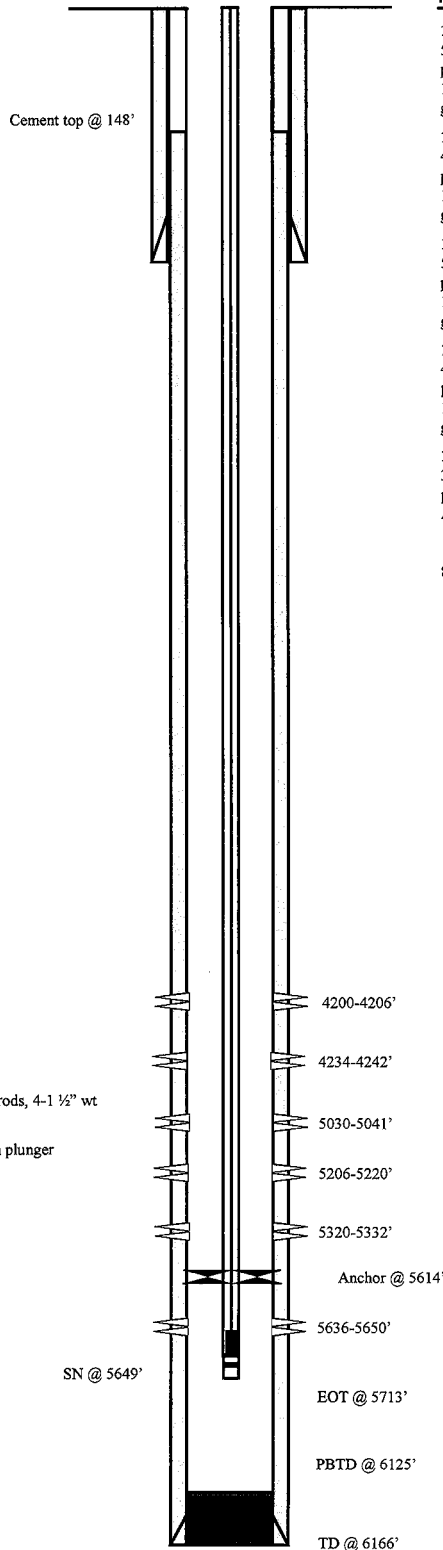
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 160 jts (6351.71')  
DEPTH LANDED: 6164.10'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 275 sx primlite and 400 sx 50/50 poz  
CEMENT TOP AT: 148'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / I-55  
NO. OF JOINTS: 179 jts (5602.17')  
TUBING ANCHOR: 5614.17' KB  
NO. OF JOINTS: 1 jt (31.10')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5649.07' KB  
NO. OF JOINTS: 2 jts (63.21')  
TOTAL STRING LENGTH: EOT @ 5712.73'

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 26'  
SUCKER RODS: 2', 2', 6' x 7/8" ponies, 221-7/8" scraped rods, 4-1 1/2" wt bars, shear coupling #21,000  
PUMP SIZE: CDI 2 1/2" x 1 3/4" x 16' x 20' RHAC pump w/sm plunger  
STROKE LENGTH: 122"  
PUMP SPEED, SPM: 4

**Wellbore Diagram****FRAC JOB**

**1/14/09 5636-5650' RU BJ & frac CPI sds as follows:**  
50,262# 20/40 sand in 471 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2162 @ ave rate of 23 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2289. Actual flush: 5170 gals.

**1/14/09 5320-5332' RU BJ & frac stage #2 sds as follows:**  
40,638# 20/40 sand in 420 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 3291 @ ave rate of 26 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2861. Actual flush: 4876 gals.

**1/14/09 5206-5220' RU BJ & frac stage #3 sds as follows:**  
55,182# 20/40 sand in 496 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1944 @ ave rate of 23 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2459. Actual flush: 4741 gals.

**1/14/09 5030-5041' RU BJ & frac stage #4 sds as follows:**  
40,414# 20/40 sand in 408 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1814 @ ave rate of 23 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1987. Actual flush: 4523 gals.

**1/15/09 4200-4242' RU BJ & frac stage #5 sds as follows:**  
38,064# 20/40 sand in 381 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 1964 @ ave rate of 23 bpm w/ 8 ppg of sand. ISIP was 2122. Actual flush: 4116 gals.

8/5/09

Parted rods. Updated rod & tubing detail.

**PERFORATION RECORD**

| Date    | Depth Range | Tool Joint | Holes    |
|---------|-------------|------------|----------|
| 1/15/09 | 4200-4206'  | 4 JSPF     | 24 holes |
| 1/15/09 | 4234-4242'  | 4 JSPF     | 32 holes |
| 1/14/09 | 5030-5041'  | 4 JSPF     | 44 holes |
| 1/14/09 | 5206-5220'  | 4 JSPF     | 56 holes |
| 1/15/09 | 5320-5332'  | 4 JSPF     | 48 holes |
| 1/15/09 | 5636-5650'  | 4 JSPF     | 56 holes |



**Jonah Q-14-9-16**

478' FSL & 703' FWL

SW/SW Section 14-T9S-R16E

Duchesne Co, Utah

API # 43-013-34041; Lease # UTU-096547

## Jonah Federal 16-15-9-16

Spud Date: 12/28/05  
Put on Production: 02/02/06

GL: 5704' KB: 5716'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (315.16')  
DEPTH LANDED: 327.01' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

**PRODUCTION CASING**

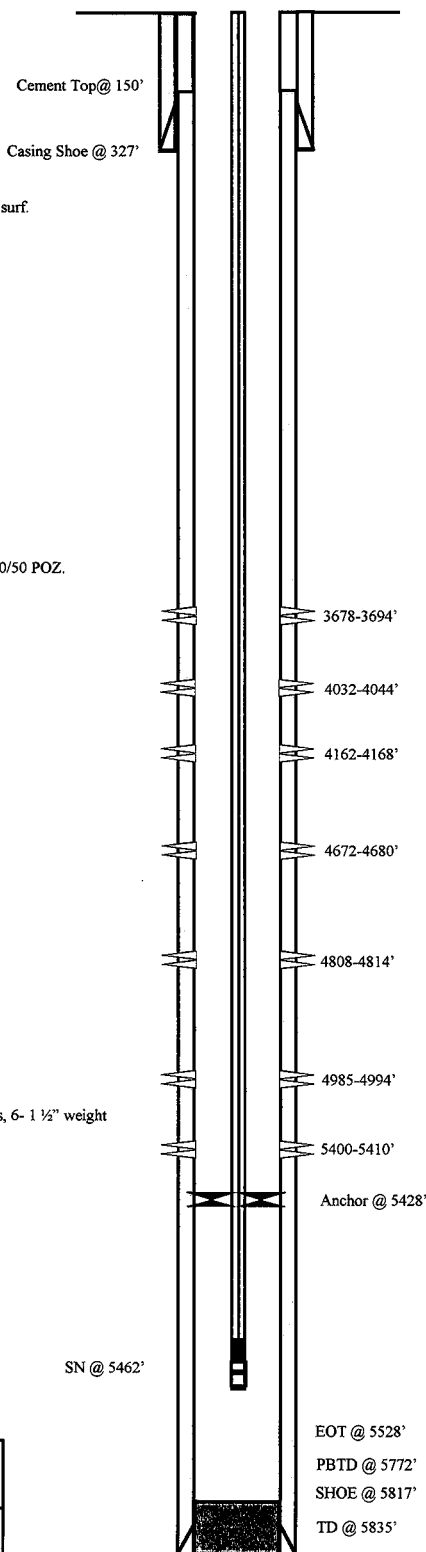
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 136 jts. (5818.63')  
DEPTH LANDED: 5817.88' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 350 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP: 150'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 170 jts (5415.7')  
TUBING ANCHOR: 5427.7  
NO. OF JOINTS: 1 jts (31.7')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5462.2'  
NO. OF JOINTS: 2 jts (64.4')  
TOTAL STRING LENGTH: EOT @ 5528'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22'  
SUCKER RODS: 3-2" x 3/4" pony rods, 212- 3/4" guided rods, 6- 1 1/2" weight bars  
PUMP SIZE: 2-1/2" x 1-3/4" x 16' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 5

**Wellbore Diagram****FRAC JOB**

01/25/06 5400-5410' **Frac CP1 sands as follows:**  
14789# 20/40 sand in 255 bbls Lightning 17 frac fluid. Treated @ avg press of 1785 psi w/avg rate of 25.1 BPM. ISIP 1850 psi. Calc flush: 5398 gal. Actual flush: 4872 gal.

01/25/06 4985-4994' **Frac A3 sands as follows:**  
18508# 20/40 sand 284 bbls Lightning 17 frac fluid. Treated @ avg press of 1845 psi w/avg rate of 25.1 BPM. ISIP 1870 psi. Calc flush: 4983 gal. Actual flush: 4992 gal.

01/25/06 4808-4814' **Frac B2 sands as follows:**  
23613# 20/40 sand in 319 bbls Lightning 17 frac fluid. Treated @ avg press of 2375 psi w/avg rate of 25.1 BPM. ISIP 2600 psi. Calc flush: 4806 gal. Actual flush: 4284 gal.

01/25/06 4672-4680' **Frac C sands as follows:**  
61018# 20/40 sand in 480 bbls Lightning 17 frac fluid. Treated @ avg press of 2005 psi w/avg rate of 25 BPM. ISIP 2240 psi. Calc flush: 4670 gal. Actual flush: 4116 gal.

01/25/06 4032-4044' **Frac PB8, GB6 sands as follows:**  
29328# 20/40 sand in 330 bbls Lightning 17 frac fluid. Treated @ avg press of 1813 psi w/avg rate of 25.1 BPM. ISIP 1835 psi. Calc flush: 4030 gal. Actual flush: 3486 gal.

01/25/06 3678-3694' **Frac GG sands as follows:**  
48534# 20/40 sand in 390 bbls Lightning 17 frac fluid. Treated @ avg press of 1700 psi w/avg rate of 25.1 BPM. ISIP 1840 psi. Calc flush: 3676 gal. Actual flush: 3570 gal.

06-26-06 **Parted Rods:** Update rod and tubing details.  
11-27-06 **Pump Change:** Updated rod and tubing detail.  
9-12-07 **Pump change.** Updated rod & tubing details.  
04/17/08 **Pump change.** Updated rod & tubing details.  
12/11/09 **Tubing leak.** Updated rod and tubing details.

**PERFORATION RECORD**

| Date     | Interval   | Tool   | Holes    |
|----------|------------|--------|----------|
| 01/18/06 | 5400-5410' | 4 JSPF | 40 holes |
| 01/25/06 | 4985-4994' | 4 JSPF | 36 holes |
| 01/25/06 | 4808-4814' | 4 JSPF | 24 holes |
| 01/25/06 | 4672-4680' | 4 JSPF | 32 holes |
| 01/25/06 | 4162-4168' | 4 JSPF | 24 holes |
| 01/25/06 | 4032-4044' | 4 JSPF | 48 holes |
| 01/25/06 | 3678-3694' | 4 JSPF | 64 holes |

**Jonah Federal 16-15-9-16**

512' FSL & 535' FEL

SE/SE Section 15-T9S-R16E

Duchesne Co, Utah

API #43-013-32754; Lease #UTU-17985

## Jonah Federal 9-15-9-16

Spud Date: 6-1-05  
 Put on Production: 7-7-05  
 GL: 5698' KB: 5710'

Initial Production: 77 BOPD,  
 11 MCFD, 59 BWPD

Injection Wellbore  
DiagramSURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jnts (302.72')  
 DEPTH LANDED: 314.57' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (5836.02')  
 DEPTH LANDED: 5849.27' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 460'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 148 jts (4436.14')  
 SEATING NIPPLE: 2-7/8" (1.10')  
 SN LANDED AT: 4636.14' KB  
 TOTAL STRING LENGTH: EOT @ 4644.69' KB

FRAC JOB

|          |            |  |
|----------|------------|--|
| 6-30-05  | 5666-5696' | <b>Frac CP5 &amp; CP4 sands as follows:</b><br>70165# 20/40 sand in 559 bbls Lightning 17 frac fluid. Treated @ avg press of 1230 psi w/avg rate of 24.5 BPM. ISIP 1800 psi. Calc flush: 5664 gal. Actual flush: 5670 gal. |
| 6-30-05  | 5428-5446' | <b>Frac CP1 sands as follows:</b><br>57169# 20/40 sand in 486 bbls Lightning 17 frac fluid. Treated @ avg press of 1346 psi w/avg rate of 24.5 BPM. ISIP 1900 psi. Calc flush: 5426 gal. Actual flush: 5418 gal.           |
| 7-1-05   | 4998-5118' | <b>Frac LODC, A1, A3 sands as follows:</b><br>34026# 20/40 sand in 343 bbls Lightning 17 frac fluid. Treated @ avg press of 1820 psi w/avg rate of 24.5 BPM. ISIP 2500 psi. Calc flush: 5996 gal. Actual flush: 4738 gal.  |
| 7-1-05   | 4820-4857' | <b>Frac B2 sands as follows:</b><br>49623# 20/40 sand in 426 bbls Lightning 17 frac fluid. Treated @ ave. pressure of 1590 24.5 BPM. ISIP 2000 psi. Calc flush: 4818 gal. Actual flush: 4578 gal.                          |
| 7-1-05   | 4704-4720' | <b>Frac C sands as follows:</b><br>88671# 20/40 sand in 632 bbls Lightning 17 frac fluid. 24.5 BPM. Treated @ ave. pressure of 1714 ISIP 2000 psi. Calc flush: 4402 gal. Actual flush: 4607 gal                            |
| 11/14/06 |            | <b>Well converted to an Injection well.</b>  |
| 11/21/06 |            | <b>MIT completed and submitted.</b>  |

Cement top @ 460'

Packer @ 4641'

EOT @ 4645'

4704-4720'

4820-4827'

4832-4836'

4851-4857'

4998-5003'

5014-5018'

5114-5118'

5428-5446'

5666-5696'

5716-5720'

PBTD @ 5805'

SHOE @ 5849'

TD @ 5860'

PERFORATION RECORD

|         |            |        |           |
|---------|------------|--------|-----------|
| 6-24-05 | 5666-5696' | 4 JSPF | 120 holes |
| 6-24-05 | 5716-5720' | 4 JSPF | 16 holes  |
| 6-30-05 | 5428-5446' | 4 JSPF | 72 holes  |
| 6-30-05 | 5114-5118' | 4 JSPF | 16 holes  |
| 6-30-05 | 5014-5018' | 4 JSPF | 16 holes  |
| 6-30-05 | 4998-5003' | 4 JSPF | 20 holes  |
| 7-1-05  | 4851-4857' | 4 JSPF | 24 holes  |
| 7-1-05  | 4832-4836' | 4 JSPF | 16 holes  |
| 7-1-05  | 4820-4827' | 4 JSPF | 28 holes  |
| 7-1-05  | 4704-4720' | 4 JSPF | 64 holes  |

**NEWFIELD****Jonah Federal 9-15-9-16**

1724' FSL &amp; 782' FEL

NE/SE Section 15-T9S-R16E

Duchesne Co, Utah

API #43-013-32683; Lease #UTU-017985



## Castle Peak Federal #33-15

Wellbore Diagram

Elev GL @ 5745'  
Elev KB @ 5759' (14' KB)

## SURFACE CASING

8 5/8", 24#, K-55  
6 jts @ 243.35'  
Landed @ 253' KB  
Hole Size @ 12 1/4"  
Cemented w/200 sx Class G w/ 2%  
CaCl & 1/4#/sx Flocele. Cemented  
to surface.

TOC @ 224' ---

253' KB ----&gt;

## PRODUCTION CASING

5 1/2", 15.5#, K-55  
143 jts @ 5981'  
Landed @ 5979' KB  
Hole Size @ 7 7/8"  
Cemented w/645 sx Class G & 750  
sx 10.0 RFC w/ additives.  
Cement Top @ 224' from CBL

## TUBING

SIZE/GRADE/WT.: 2 3/8", 4.7 lbs  
NO. OF JOINTS: 187 jts. (5712.4')  
TUBING ANCHOR: 5712.4'  
NO. OF JOINTS: 1 jts. (32.2')  
SEATING NIPPLE: 2 3/8" (1.1')  
PERF. SUB: 2-3/8"x4.00'  
MUD ANCHOR: 2 3/8" x 30'  
TOTAL STRING LENGTH: 5810'  
SN LANDED AT: 5747.4'  
NO. OF JOINTS: 2 jts (60.9')

## SUCKER RODS

1 - 1-1/4" x 16' Polish Rod  
SUCKER RODS: 98- 3/4" guided rods  
(4 per), 106- 3/4" sucker rods

PUMP SIZE: 2' x 1 3/4" x 16' RHAC

STROKE LENGTH:

PUMP SPEED, SPM:

PUMPING UNIT SIZE: Lufkin MarkII M114D 173-74  
Unit serviced 10-6-92  
S/N E97711A1-456676  
Ajax EA-30 engine  
S/N 79361

## ACID JOBS

5217'-5230' KB 1000 gal 7.5% HCl  
5471'-5543' KB 2000 gal 7.5% HCl  
5656'-5776' KB 1000 gal 7.5% HCl

## FRAC JOBS

5217'-5230' KB 5-18-82: w/Western. 20000 gal Apollo 40  
w/28500# 20-40 sand & 12000# 10-20 sand.  
ATR 10 BPM @ 2500 psi, max 2600 psi. ISIP  
@ 2450 psi, 15 - 2200 psi, 20 - 2200 psi.  
5471'-5543' KB 5-16-82: w/Western. 50000 gal Apollo 40  
w/75000# 20-40 sand & 20000# 10-20 sand.  
ATR 20 BPM @ 1700 psi, max 1800 psi. ISIP  
@ 1700 psi, 15 - 1600 psi, 20 - 1550 psi.  
5656'-5776' KB 5-14-82: w/Western. 3850 gal Apollo 40  
w/3200# 20-40 sand. 8 Ball sealers pumped,  
sand screened out before balls hit perms.  
ATR 10 BPM @ 1600 psi, max 3800 psi.  
ISIP 800 psi, 15 - 0.

11/19/08 Tubing Leak. Updated rod & tubing details.  
1/19/2010 Tubing Leak. Updated rod and tubing detail.

5217'-5230'

5471'-5505'

5522'-5543'

5656'-5664'

5760'-5776'

SN LANDED @ 5747'  
PETD @ 5934' KB  
TD @ 5980' KB

NEWFIELD

CASTLE PEAK FEDERAL #33-15  
Jonah Unit/Monument Butte Fie.  
Lease No. U-017985  
NW SE Sec. 15, T9S, R16E  
Duchesne Co., Utah

API # 43-013-30632

## Castle Peak Federal 42-15

GL: 5657' KB: 5670'

Initial Production: BOPD,  
MCFPD, BWPD

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 DEPTH LANDED: 285'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 220 sxs Class H

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 5921.92'  
 DEPTH LANDED: 5920.17'  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 500 sxs Class G & 675 sxs RFC  
 CEMENT TOP AT: 2250'

**TUBING**

SIZE/GRADE/WT: 2 7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 178 jts. (5559.34')  
 TUBING ANCHOR: 5572'  
 NO. OF JOINTS: 2 jts. (62.83')  
 SEATING NIPPLE: 2 7/8" (1.10')  
 SN LANDED AT: 5637.97'  
 PERF JT: 1 jt (31.23')  
 NO. OF JOINTS: 3 jts. (93.64')  
 TOTAL STRING LENGTH: EOT @ 5770.52'

**SUCKER RODS**

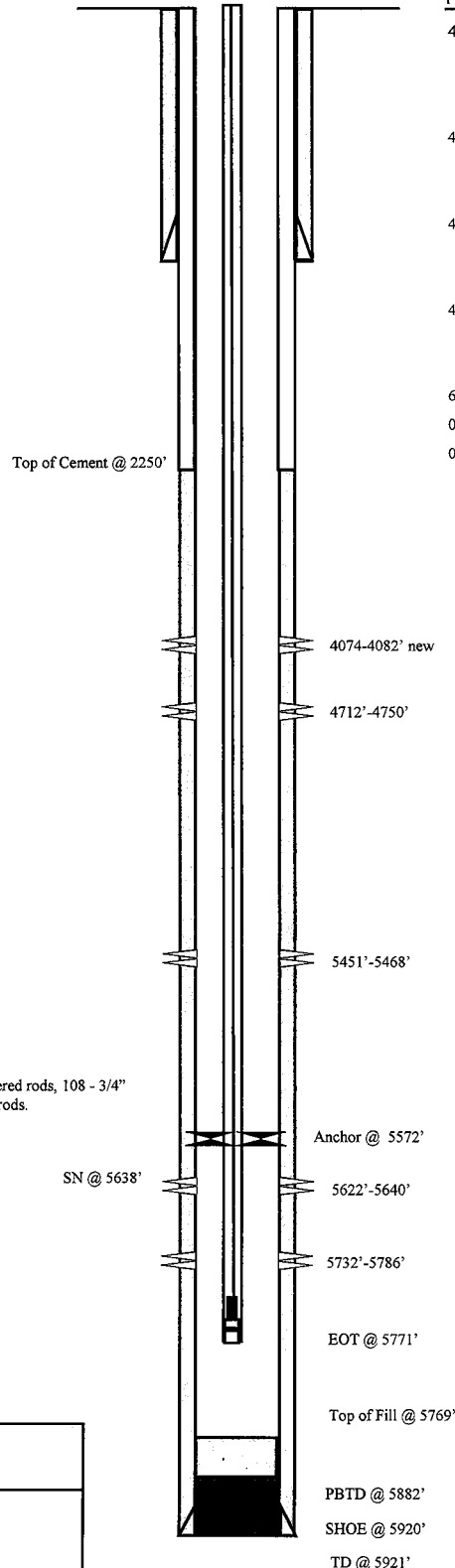
POLISHED ROD: 1 1/4" x 22'  
 SUCKER RODS: 6- 1 1/2" scraped rods, 20 - 3/4" scraped rods, 108 - 3/4" plain rods, 90 - 3/4" scraped rod, 1-4' & 1-2" x 3/4" pony rods.  
 PUMP LENGTH: 2 1/2" x 1 1/2" x 15' RHAC  
 STROKE LENGTH: 50"  
 PUMP SPEED, SPM: 5  
 LOGS: DIL/SFL/FDC/CNL/CBL

**FRAC JOB**

4/8/82 5732'-5786' 60,712 gal Apollo 30 w/ 75,000# 20/40 sand and 20,000# 10/20 sand. ATP= 1800 psi, ATR= 30.0 bpm, ISIP= 1600 psi, 15= 1400 psi, 30 min= 1400 psi.  
 4/11/82 5622'-5640' 27,000 gal Apollo 30 w/40,000# 20/40 sand. ATP= 2100 psi, ATR= 26 bpm, ISIP= 2200 psi, 15 min= 1400 psi, 20 min= 1300 psi.  
 4/15/82 5451'-5468' 13,000 gal Apollo 30 w/11,000# 20/40 sand and 12,000# 10/20 sand. ATP= 1900 psi, ATR= 25 bpm, ISIP= 1600 psi, 15 min= 1460 psi, 20 min= 1400 psi.  
 4/17/82 4712'-4750' 43,000 gal Apollo 30 w/20,000# 20/40 sand and 20,000# 10/20 sand. ATP=1950 psi, ATR= 30 bpm, ISIP= 1200 psi, 15 min= 1625 psi, 20 min= 1560 psi.  
 6/4/04 Stuck plunger. Update rod and tubing details.  
 09/04/07 Recompletion  
 09/04/07 4074-4082' **Frac GB6 sands as follows:**  
 43782# 20/40 sand in 490 bbls Lightning 17 frac fluid. Treated @ avg press of 2367 psi w/avg rate of 24.8 BPM. ISIP 2030 psi. Calc flush: 4005 gal. Actual flush: 3986 gal.

**PERFORATION RECORD**

|          |             |         |          |
|----------|-------------|---------|----------|
| 4/7/82   | 5732'-5786' | 1 JSPF  | 55 holes |
| 4/11/82  | 5622'-5640' | 2 JSPF  | 37 holes |
| 4/14/82  | 5451'-5468' | 2 JSPF  |          |
| 4/16/82  | 4712'-4750' | 2 JSPF  |          |
| 09/04/07 | 4074-4082'  | 32 JSPF | 32 holes |

**CASTLE PEAK FEDERAL 42-15**

1820' FNL & 820' FEL  
 SE/NE Section 15, T9S R16E  
 DUCHESNE CO, UTAH  
 API #43-013-30633; LEASE #U-017985

## Jonah Fed K-15-9-16

Spud Date: 11/19/08  
Put on Production: 1/6/2009

GL: 5659' KB: 5671'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (312.35')  
DEPTH LANDED: 324.20' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 1 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 159 jts (6088.70')  
DEPTH LANDED: 6101.95'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sx primlite and 400 sx 50/50 poz  
CEMENT TOP AT: 100'

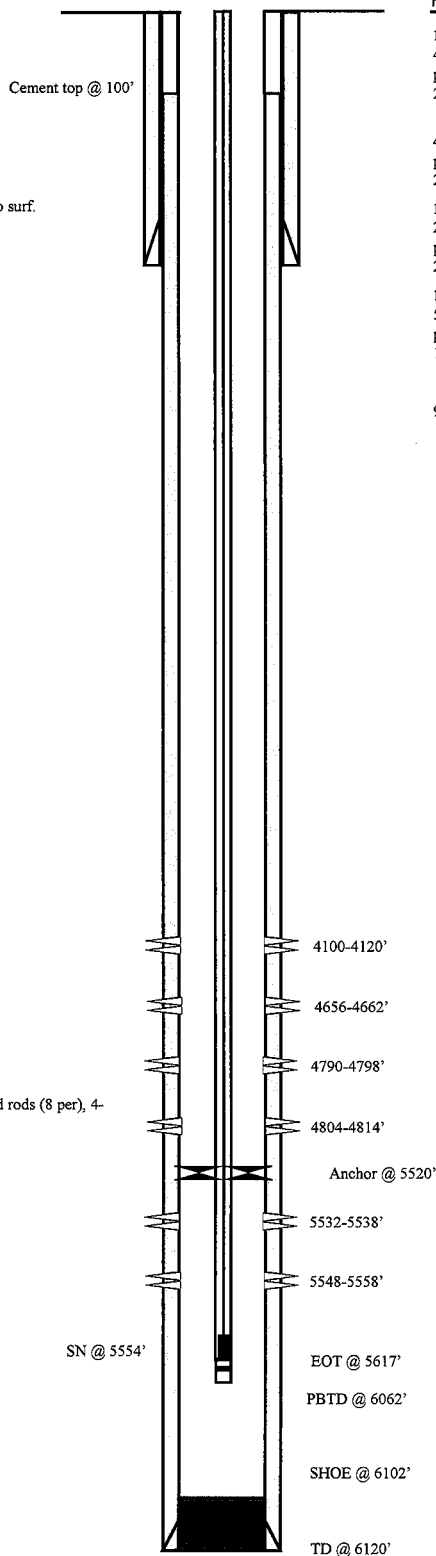
**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 178 jts (5508.4')  
TUBING ANCHOR: 5520.4' KB  
NO. OF JOINTS: 1 jt (31.08')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5554.3' KB  
NO. OF JOINTS: 2 jts (62.06')  
TOTAL STRING LENGTH: EOT @ 5617.4'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 26' polished rod  
SUCKER RODS: 1-2', 6', 8' x 7/8" pony subs, 217-7/8" guided rods (8 per), 4-1 1/2" wt bars  
PUMP SIZE: 2 1/2" x 1 3/4" x 16' x 20' RHAC rod pump-CDI  
STROKE LENGTH: 122"  
PUMP SPEED, SPM: 4

## Wellbore Diagram

**FRAC JOB**

12/29/08 5532-5558' Frac CP1 sds as follows:  
40,600#s of 20/40 sand in 653 bbls of Lightning 17 fluid. Broke @ 2970 psi. Treated w/ ave pressure of 1945 psi w/ ave rate of 29.8 BPM. ISIP 2152 psi. Actual flush: 5027 gals.

12/29/08 4790-4814' Frac C sds as follows:  
44,338#s of 20/40 sand in 438 bbls of Lightning 17 fluid. Broke @ 1770 psi. Treated w/ ave pressure of 2065 psi w/ ave rate of 22.8 BPM. ISIP 2226 psi. Actual flush: 4284 gals.

12/29/08 4656-4662' Frac D1 sds as follows:  
24,111#s of 20/40 sand in 340 bbls of Lightning 17 fluid. Broke @ 3208 psi. Treated w/ ave pressure of 2133 psi w/ ave rate of 22.7 BPM. ISIP 2052 psi. Actual flush: 4150 gals.

12/29/08 4100-4120' Frac GB6 sds as follows:  
55,828#s of 20/40 sand in 478 bbls of Lightning 17 fluid. Broke @ 1508 psi. Treated w/ ave pressure of 1706 psi w/ ave rate of 22.8 BPM. ISIP 1891 psi. Actual flush: 4099 gals.

9/18/09

Tubing Leak. Updated rod & tubing details.

**PERFORATION RECORD**

| Date     | Interval   | Tool   | Holes    |
|----------|------------|--------|----------|
| 12/29/08 | 4100-4120' | 4 JSPF | 80 holes |
| 12/29/08 | 4656-4662' | 4 JSPF | 24 holes |
| 12/29/08 | 4790-4798' | 4 JSPF | 32 holes |
| 12/29/08 | 4804-4814' | 4 JSPF | 40 holes |
| 12/29/08 | 5532-5538' | 4 JSPF | 24 holes |
| 12/29/08 | 5548-5558' | 4 JSPF | 24 holes |

**NEWFIELD**

**Jonah Fed K-15-9-16**

1839' FNL & 820' FEL

SE/NE Section 15-T9S-R16E

Duchesne Co, Utah

API # 43-013-34014 ; Lease # UTU-017985

## JONAH 5-14-9-16

Spud Date: 6/11/03

Put on Production: 3/10/04

GL:5608' KB:5620'

**SURFACE CASING**

CSG SIZE: 8-5/8"

GRADE: J-55

WEIGHT: 24#

LENGTH: 7 jts. (301.85')

DEPTH LANDED: 311.85' KB

HOLE SIZE: 12-1/4"

CEMENT DATA: 150sxs Class "G" cmt, est 3 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"

GRADE: J-55

WEIGHT: 15.5#

LENGTH: 134 jts. (5843.4')

DEPTH LANDED: 5843.4' KB

HOLE SIZE: 7-7/8"

CEMENT DATA: 320 sxs Prem. Lite II mixed &amp; 450 sxs 50/50 POZ mix.

CEMENT TOP AT: 404'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#

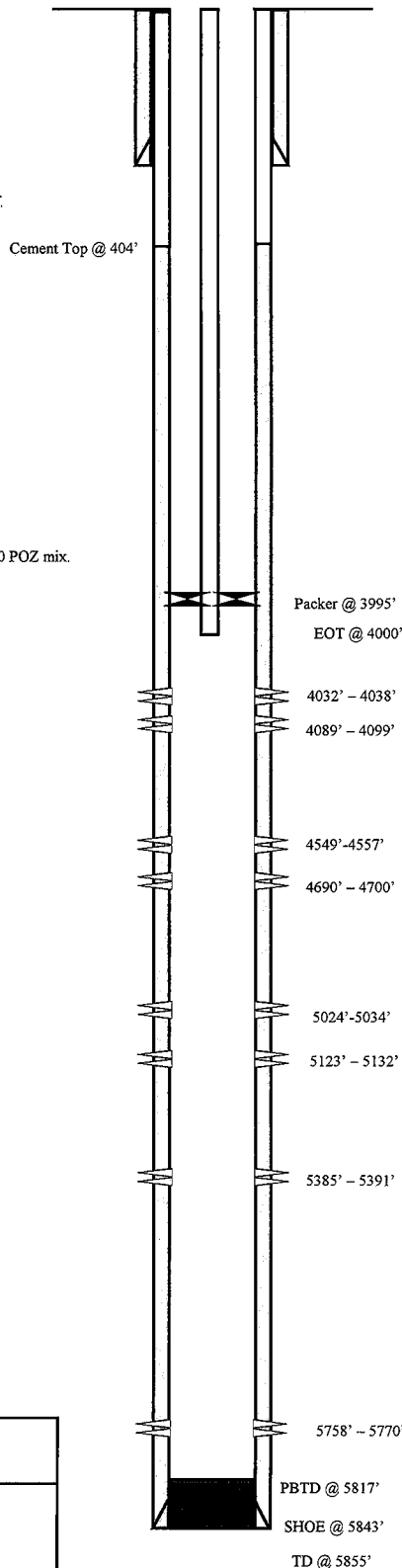
NO. OF JOINTS: 123 jts (64.63')

SEATING NIPPLE: 2-7/8" (1.10')

SN LANDED AT: 3991.00' KB

TUBING ANCHOR: 3995.35' KB

TOTAL STRING LENGTH: EOT @ 3999.50'

**Injection Wellbore  
Diagram**

Initial Production: 70 BOPD,

35 MCFD, 17 BWPD

**FRAC JOB**

|          |             |   |
|----------|-------------|---|
| 3/3/04   | 5758'-5770' | <b>Frac CP5 sands as follows:</b><br>35,816# 20/40 sand in 359 bbls lightning Frac 17 fluid. Treated @ avg press of 1890 psi w/avg rate of 24.8 BPM. ISIP 2165 psi. Calc flush: 5756 gal. Actual flush: 5754 gal.       |
| 3/3/04   | 5385'-5391' | <b>Frac CP .5 sands as follows:</b><br>19,441# 20/40 sand in 251 bbls lightning Frac 17 fluid. Treated @ avg press of 2425 psi w/avg rate of 24.7 BPM. ISIP 1865 psi. Calc flush: 5383 gal. Actual flush: 5376 gal.     |
| 3/3/04   | 5123'-5132' | <b>Frac LODC sands as follows:</b><br>39,816# 20/40 sand in 371 bbls lightning Frac 17 fluid. Treated @ avg press of 2742 psi w/avg rate of 24.7 BPM. ISIP 3220 psi. Calc flush: 5121 gal. Actual flush: 5124 gal.      |
| 3/3/04   | 5024'-5034' | <b>Frac A3 sands as follows:</b><br>39,550# 20/40 sand in 367 bbls lightning Frac 17 fluid. Treated @ avg press of 1996 psi w/avg rate of 24.9 BPM. ISIP 2150 psi. Calc flush: 5022 gal. Actual flush: 5040 gal.        |
| 3/3/04   | 4690'-4700' | <b>Frac C sands as follows:</b><br>49,590# 20/40 sand in 409 bbls lightning Frac 17 fluid. Treated @ avg press of 1771 psi w/avg rate of 24.7 BPM. ISIP 1900 psi. Calc flush: 4688 gal. Actual flush: 4704 gal.         |
| 3/4/04   | 4549'-4557' | <b>Frac D1 sands as follows:</b><br>24,970# 20/40 sand in 267 bbls lightning Frac 17 fluid. Treated @ avg press of 2180 psi w/avg rate of 24.6 BPM. ISIP 2050 psi. Calc flush: 4547 gal. Actual flush: 4536 gal.        |
| 3/4/04   | 4032'-4099' | <b>Frac GB4 and 6 sands as follows:</b><br>52,120# 20/40 sand in 419 bbls lightning Frac 17 fluid. Treated @ avg press of 1950 psi w/avg rate of 24.7 BPM. ISIP 1890 psi. Calc flush: 4030 gal. Actual flush: 3948 gal. |
| 10/18/05 |             | Tbg. Leak. Update tubing and rod Details.   |
| 7/23/07  |             | Well converted to an Injection well. MIT completed and submitted.   |

**PERFORATION RECORD**

|         |             |        |          |
|---------|-------------|--------|----------|
| 3/02/04 | 5758'-5770' | 4 JSPF | 48 holes |
| 3/03/04 | 5385'-5391' | 4 JSPF | 24 holes |
| 3/03/04 | 5123'-5132' | 4 JSPF | 36 holes |
| 3/03/04 | 5024'-5034' | 4 JSPF | 40 holes |
| 3/03/04 | 4690'-4700' | 4 JSPF | 40 holes |
| 3/03/04 | 4549'-4557' | 4 JSPF | 32 holes |
| 3/04/04 | 4089'-4099' | 4 JSPF | 40 holes |
| 3/04/04 | 4032'-4038' | 4 JSPF | 24 holes |

**NEWFIELD**

**Jonah 5-14-9-16**  
 2028' FNL & 659' FWL  
 SW/NW Section 14-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32336; Lease #UTU-096547

## Jonah 6-14-9-16

Spud Date: 6/10/03  
Put on Production: 3/19/04  
GL: 5593' KB: 5605'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (300.71')  
DEPTH LANDED: 310.71' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 150 sxs Class "G" cmt, est 3 bbls cmt to surf.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 137 jts. (5854.02')  
DEPTH LANDED: 5852.52' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 320 sxs Prem. Lite II mixed & 450 sxs 50/50 POZ.  
CEMENT TOP AT: 292'

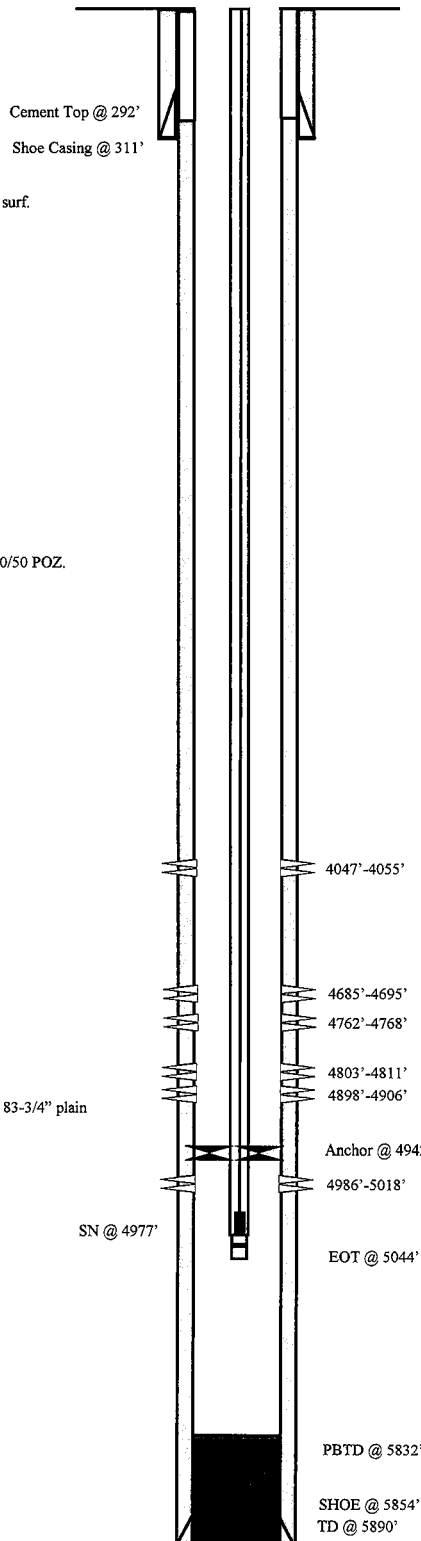
**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 150 jts (4929.09')  
TUBING ANCHOR: 4941.59' KB  
NO. OF JOINTS: 1 jts (33.02')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4977.41' KB  
NO. OF JOINTS: 2 jts (65.08')  
TOTAL STRING LENGTH: EOT @ 5044.04' w/12.5 KB

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 22'  
SUCKER RODS: 6-1 1/2" weight bars; 10-3/4" scraped rods; 83-3/4" plain rods, 99-3/4" scraped rods, 1-8", 1-6", 1-2" x 3/4" pony rods.  
PUMP SIZE: 2-1/2" x 1-1/2" x 16' RHAC w/ SM Plunger  
STROKE LENGTH: 86"  
PUMP SPEED, SPM: 6 SPM  
LOGS: DIGL/SP/GR/CAL

## Wellbore Diagram



Initial Production: 147 BOPD,  
140 MCFD, 9 BWPD

**FRAC JOB**

3/11/04 4986'-5018' **Frac A3 sands as follows:**  
105,000# 20/40 sand in 855 bbls Lightning 17 fluid. Treated @ avg press of 2160 psi w/avg rate of 24.7 BPM. ISIP 2600 psi. Calc flush: 4984 gal. Actual flush: 4977 gal.

3/13/04 4898'-4906' **Frac A.5 sands as follows:**  
20,600# 20/40 sand in 249 bbls Lightning 17 fluid. Treated @ avg press of 2825 psi w/avg rate of 24.7 BPM. ISIP 2360 psi. Calc flush: 4896 gal. Actual flush: 4893 gal.

3/13/04 4762'-4811' **Frac B2 and B.5 sands as follows:**  
58,600# 20/40 sand in 464 bbls Lightning 17 fluid. Treated @ avg press of 2080 psi w/avg rate of 24.7 BPM. ISIP 1975 psi. Calc flush: 4760 gal. Actual flush: 4759 gal.

3/16/04 4685'-4695' **Frac C sands as follows:**  
53,600# 20/40 sand in 449 bbls Lightning 17 fluid. Treated @ avg press of 2810 psi w/avg rate of 24.4 BPM. ISIP 2230 psi. Calc flush: 4683 gal. Actual flush: 4683 gal.

3/16/04 4047' - 4055' **Frac GB6 sands as follows:**  
27,989# 20/40 sand in 268 bbls Lightning 17 fluid. Treated @ avg press of 1685psi w/avg rate of 24.7 BPM. ISIP 1830 psi. Calc flush: 4045 gal. Actual flush: 3960 gal.

**PERFORATION RECORD**

| Date    | Depth Range | Tool Joint | Holes    |
|---------|-------------|------------|----------|
| 3/09/04 | 4986'-5018' | 2 JSPF     | 64 holes |
| 3/13/04 | 4898'-4906' | 4 JSPF     | 32 holes |
| 3/13/04 | 4803'-4811' | 4 JSPF     | 32 holes |
| 3/13/04 | 4762'-4768' | 4 JSPF     | 24 holes |
| 3/13/04 | 4685'-4695' | 4 JSPF     | 40 holes |
| 3/16/04 | 4047'-4055' | 4 JSPF     | 32 holes |



Jonah 6-14-9-16  
1882' FNL & 1923 FWL  
SENW Section 14-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32337; Lease #UTU-096547



## Jonah Federal M-14-9-16

Spud Date: 01/14/2010  
 Put on Production: 02/19/2010  
 GL: 5589' KB: 5601'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (308.53')  
 DEPTH LANDED: 320'  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 145 jts. (6028.58')  
 HOLE SIZE: 7-7/8"  
 TOTAL DEPTH: 6041.83'  
 CEMENT DATA: 260 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 80'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 177 jts (5554.3')  
 TUBING ANCHOR: 5566'  
 NO. OF JOINTS: 1 jts (31.4')  
 SEATING NIPPLE: 2-7/8" (1.1')  
 SN LANDED AT: 5600.6' KB  
 NO. OF JOINTS: 2 jts (63')  
 TOTAL STRING LENGTH: EOT @ 5665'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 30'  
 SUCKER RODS: 1 - 6' x 7/8" pony rods, 219 - 7/8" 8per guided rods,  
 4 - 1 1/2" weight bars  
 PUMP SIZE: 2 1/2 x 1 1/2 x 17" x 24" RHAC  
 STROKE LENGTH: 144  
 PUMP SPEED: SPM 5

**FRAC JOB**

|          |            |   |
|----------|------------|---|
| 02-19-10 | 5594-5599' | <b>Frac CP2 sands as follows:</b> Frac with 9412# 20/40 sand in 62 bbls Lightning 17 fluid.           |
| 02-19-10 | 5120-5130' | <b>Frac A3 sands as follows:</b> Frac with 45196# 20/40 sand in 214 bbls Lightning 17 fluid.          |
| 02-19-10 | 4870-4931' | <b>Frac B1 &amp; B2 sands as follows:</b> Frac with 75309# 20/40 sand in 331 bbls Lightning 17 fluid. |
| 02-19-10 | 4125-4133' | <b>Frac GB4 sands as follows:</b> Frac with 24572# 20/40 sand in 151 bbls Lightning 17 fluid.         |
| 02-19-10 | 3958-3965' | <b>Frac GB2 sands as follows:</b> Frac with 12499# 20/40 sand in 71 bbls Lightning 17 fluid.          |

Cement Top @ 80'

SN @ 5601'

3958-3965'

4125-4133'

4870-4872'

4877-4879'

4921-4931'

5120-5130'

Anchor @ 5566'

5594-5599'

EOT @ 5665'

PBSD @ 5966'

TD @ 6055'

**PERFORATION RECORD**

|            |        |          |
|------------|--------|----------|
| 5594-5599' | 3 JSPF | 15 holes |
| 5120-5130' | 3 JSPF | 30 holes |
| 4921-4931' | 3 JSPF | 30 holes |
| 4877-4879' | 3 JSPF | 6 holes  |
| 4870-4872' | 3 JSPF | 6 holes  |
| 4125-4133' | 3 JSPF | 24 holes |
| 3958-3965' | 3 JSPF | 21 holes |



**Jonah Federal M-14-9-16**  
 1878' FNL & 1949' FWL (SE/NW)  
 Section 14, T9S, R16E  
 Duchesne Co, Utah  
 API # 43-013-33812; Lease # UTU-096547

## Jonah Federal 11-14-9-16

Spud Date: 5/25/05  
 Put on Production: 6/24/05  
 GL: 5621' KB: 5633'

Initial Production: 115 BOPD,  
 15 MCFD, 114 BWPD

Injection Wellbore  
DiagramSURFACE CASING

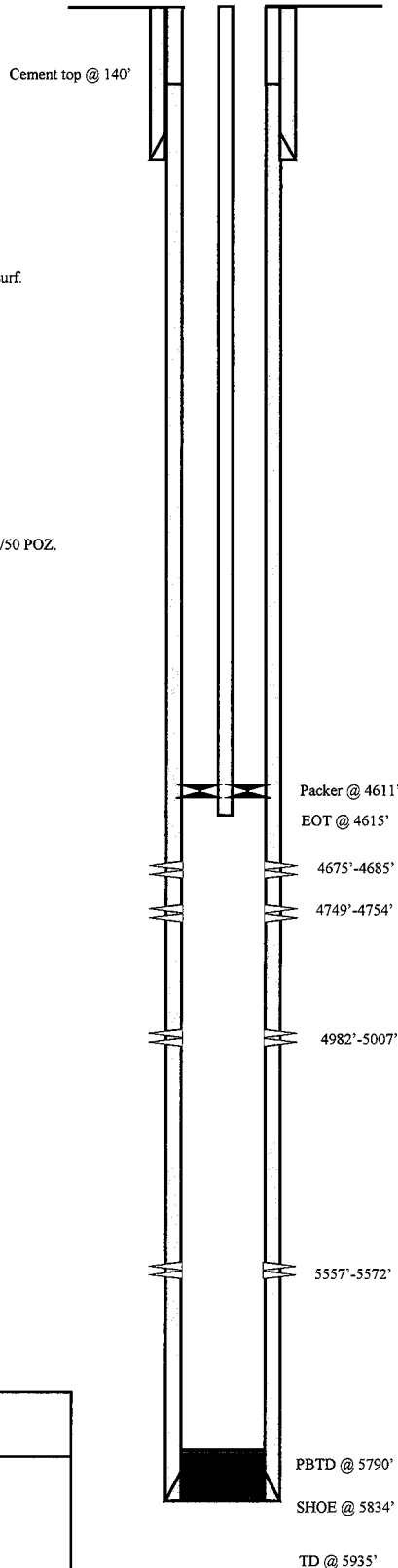
CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (304.17')  
 DEPTH LANDED: 314.17' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 138 jts. (5835.87')  
 DEPTH LANDED: 5833.87' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 140'

TUBING

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
 NO. OF JOINTS: 147 jts (4594.85')  
 SN LANDED AT: 1.10' (4606.85')  
 CE @ 4611.05'  
 TOTAL STRING LENGTH: EOT @ 4615.45' KB

FRAC JOB

6/20/05 5557'-5572' **Frac CP3 sands as follows:**  
 55,674# 20/40 sand in 483 bbls Lightning 17  
 frac fluid. Treated @ avg press of 1748 psi  
 w/avg rate of 25.2 BPM. ISIP 1850 psi. Calc  
 flush: 5555 gal. Actual flush: 5544 gal.

6/20/05 4982'-5007' **Frac A3 sands as follows:**  
 95,489# 20/40 sand in 692 bbls Lightning 17  
 frac fluid. Treated @ avg press of 2096 psi  
 w/avg rate of 24.9 BPM. ISIP 2330 psi. Calc  
 flush: 4980 gal. Actual flush: 4998 gal.

6/20/05 4675'-4754' **Frac C&B1 sands as follows:**  
 62,157# 20/40 sand in 479 bbls Lightning 17  
 frac fluid. Treated @ avg press of 1650 psi  
 w/avg rate of 25 BPM. ISIP 1920 psi. Calc  
 flush: 4673 gal. Actual flush: 4578 gal.

09/12/06 **Pump Change.** Update rod and tubing details.  
 11/7/06 **Convert to Injection Well**  
 11/10/06 **MIT Completed - tbg deatail updated**

PERFORATION RECORD

|         |             |        |           |
|---------|-------------|--------|-----------|
| 6/14/05 | 5557'-5572' | 4 JSPF | 60 holes  |
| 6/20/05 | 4982'-5007' | 4 JSPF | 100 holes |
| 6/20/05 | 4749'-4754' | 4 JSPF | 20 holes  |
| 6/20/05 | 4675'-4685' | 4 JSPF | 40 holes  |

**Jonah Federal 11-14-9-16**

2030' FSL & 2160' FWL

NE/SW Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-32681; Lease #UTU-096547

## FEDERAL 3-23-9-16

Spud Date: 01/08/08  
Put on Production: 03/07/08

GL:5680' KB:5692'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (284.85')  
DEPTH LANDED: 296.70' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 1- 160, sxs Class "G" cmt, est 5 bbls cmt to surf.

**PRODUCTION CASING**

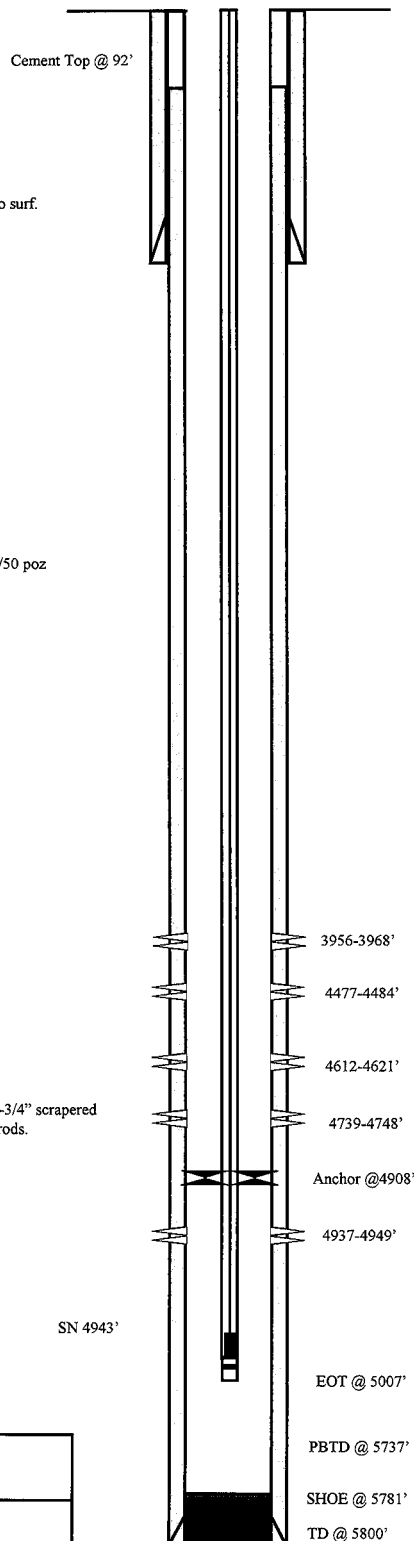
CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 130 jts. (5811.31')  
DEPTH LANDED: 5781.17' KB  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 300 sxs Prem. Lite II mixed & 400 sxs 50/50 poz  
CEMENT TOP: 92'

**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 207 jts (6513.88')  
TUBING ANCHOR: 6525.88' KB  
NO. OF JOINTS: 1jts (31.45')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 4943' KB  
NO. OF JOINTS: 2jts (62.37')  
TOTAL STRING LENGTH: EOT @ 5006.62' KB

**SUCKER RODS**


POLISHED ROD: 1-1/2" x 26' SM polished rods  
SUCKER RODS: 1-2, 1-4', 1-6', 1-8' X 3/4" Pony Subs, 92-3/4" scraped rods, 77-3/4" slick rods, 20-3/4" guided rods, 6-1 1/2" weight rods.  
PUMP SIZE: CDI 2-1/2" x 1-1/2" x 14' x 10' RHAC  
STROKE LENGTH: 86"  
PUMP SPEED, 5.5 SPM:

**Wellbore Diagram****FRAC JOB**

02/28/08 4937-4949' **Frac A3 sands as follows:**  
60177# 20/40 sand in 519 bbls Lightning 17 frac fluid. Treated @ avg press of 2021 psi w/avg rate of 23.3 BPM. ISIP 2150 psi.  
02/28/08 4739-4748' **Frac B2 sands as follows:**  
40603# 20/40 sand in 407 bbl Lightning 17 frac fluid. Treated @ avg press of 1923 psi w/avg rate of 23.2 BPM. ISIP 1964 psi.  
02/28/08 4612-4621' **Frac C sands as follows:**  
25535# 20/40 sand in 350 bbls Lightning 17 frac fluid. Treated @ avg press of 2360 psi w/avg rate of 23.1 BPM. ISIP 2760 psi.  
02/28/08 4477-4484' **Frac D1 sands as follows:**  
20500# 20/40 sand in 300 bbls Lightning 17 frac fluid. Treated @ avg press of 2099 psi w/avg rate of 23.2 BPM. ISIP 2016 psi.  
02/28/08 3956-3968' **Frac GB4 sands as follows:**  
23017# 20/40 sand in 301 bbls Lightning 17 frac fluid. Treated @ avg press of 1777 psi w/avg rate of 23.0 BPM. ISIP 1817 psi.

**PERFORATION RECORD**

|            |        |          |
|------------|--------|----------|
| 4937-4949' | 4 JSPF | 48 holes |
| 4739-4748' | 4 JSPF | 36 holes |
| 4612-4621' | 4 JSPF | 36 holes |
| 4477-4484' | 4 JSPF | 28 holes |
| 3956-3968' | 4 JSPF | 48 holes |

|  |
|--|
|   |
| <b>FEDERAL 3-23-9-16</b><br>586' FNL & 1849' FWL<br>NE/NW Section 23-T9S-R16E<br>Duchesne Co, Utah<br>API #43-013-33176; Lease # 15855 |

## Goates #3-14-9-16

Spud Date: 1/15/65  
Put on Production: 2/22/65

GL: 5596' KB: 5606'

**SURFACE CASING**

CSG SIZE: 9-5/8"  
GRADE: J-55  
WEIGHT: 32.3#  
LENGTH: 7 jts. (213')  
DEPTH LANDED: 226'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 200 sxs cement.

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 171 jts. (5127')  
DEPTH LANDED: 5140'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 200 sxs cement.  
CEMENT TOP AT: 5380' per CBL'

**PRODUCTION LINER**

CSG SIZE: 3-1/2"  
GRADE: N-80  
WEIGHT: 8.81#  
LENGTH: 28 jts. (874')  
DEPTH LANDED: 5949'  
HOLE SIZE: 4-3/4"  
CEMENT DATA: 35 sxs cement.

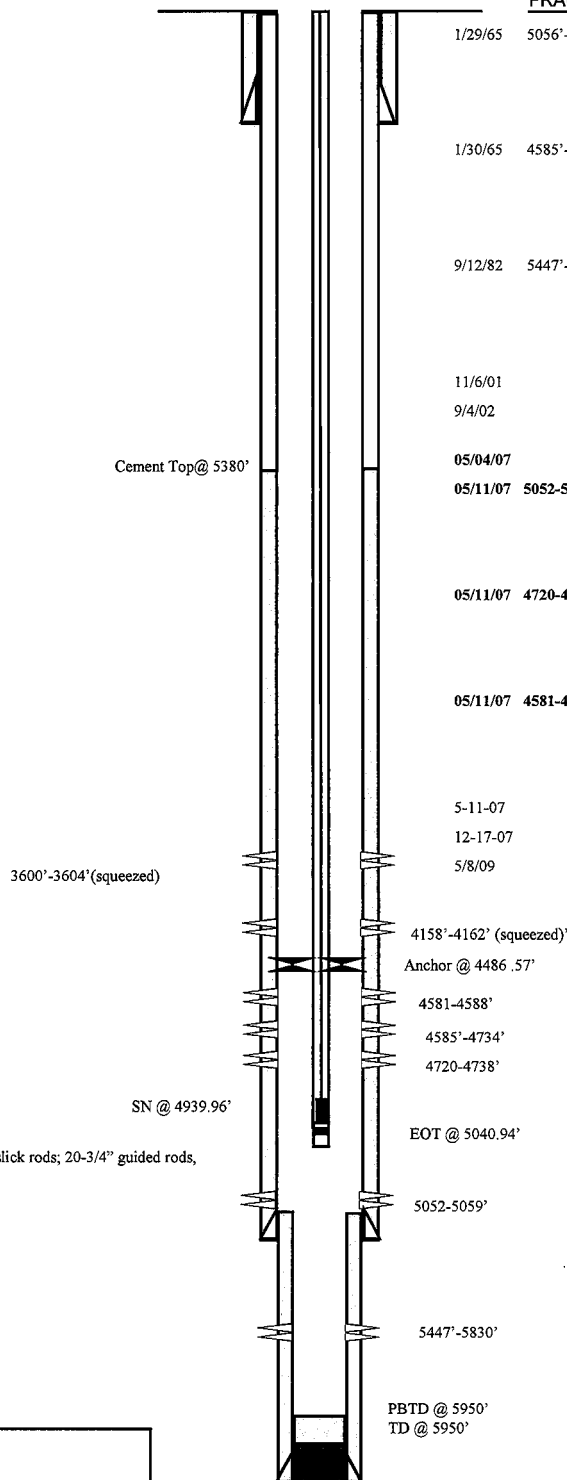
**TUBING**

SIZE/GRADE/WT.: 2-3/8" / J-55  
NO. OF JOINTS: 142 jts (4483.82')  
TUBING ANCHOR: 4486.57'  
NO. OF JOINTS: 14 jts (443.39')  
SEATING NIPPLE: 2-3/8" (1.10')  
SN LANDED AT: 4939.96'  
NO. OF JOINTS: 1 jts Perf sub (4.02')  
NO. OF JOINTS: 3- 2 3/8" J-55 tbg (95.41')  
TOTAL STRING LENGTH: EOT @ 5040.94'

**SUCKER RODS**

POLISHED ROD: 1-1/4" x 16'  
SUCKER RODS: 89-3/4" guided rods, 81-3/4" slick rods; 20-3/4" guided rods, 4-7/8" guided rods; 2- 1 1/4" wt bars.  
PUMP SIZE: 2" x 1-1/4" x 16' RHAC  
STROKE LENGTH: 64"  
PUMP SPEED, SPM: 4.4 SPM

## Wellbore Diagram

**FRAC JOB**

|          |             |   |
|----------|-------------|---|
| 1/29/65  | 5056'-5057' | <b>Frac sand as follows:</b><br>16,800# 20/40 sand + 1000# glass beads in 483 bbls lease crude oil. Treated @ avg press of 3875 psi w/avg rate of 28 BPM.   |
| 1/30/65  | 4585'-4722' | <b>Frac sand as follows:</b><br>12,600# 20/40 sand + 1000# glass beads in 320 bbls lease crude oil. Treated @ avg press of 4200 psi w/avg rate of 30 BPM.   |
| 9/12/82  | 5447'-5830' | <b>Frac sand as follows:</b><br>55,400# 20/40 sand in 937 bbls frac fluid. Treated @ avg press of 3600 psi w/avg rate of 16 BPM. ISIP 1850 psi. Screened out.                                     |
| 11/6/01  |             | Rod Job. Update rod and tubing details.   |
| 9/4/02   |             | Parted Rods. Update rod and tubing details.   |
| 05/04/07 |             | <b>Re-completion</b>  |
| 05/11/07 | 5052-5059'  | <b>Frac A sands as follows:</b><br>30315#s 20/40 sand in 278 bbls Lightning 17 frac fluid. Treated @ avg press of 4116 psi w/avg rate of 14.3 BPM. Calc flush: 2112 gal. Actual flush: 1222 gal.  |
| 05/11/07 | 4720-4738'  | <b>Frac C sands as follows:</b><br>40196#s 20/40 sand in 340 bbls Lightning 17 frac fluid. Treated @ avg press of 3874 psi w/avg rate of 14.3 BPM. Calc flush: 1712 gal. Actual flush: 14280 gal. |
| 05/11/07 | 4581-4588'  | <b>Frac D1 sands as follows:</b><br>38647#s 20/40 sand in 338 bbls Lightning 17 frac fluid. Treated @ avg press of 3495 psi w/avg rate of 14.3 BPM. Calc flush: 1263 gal. Actual flush: 1088 gal. |
| 5-11-07  |             | Pump Change: Updated rod & tubing detail.   |
| 12-17-07 |             | Pump change. Updated rod & tubing details.  |
| 5/8/09   |             | Pump Change. Updated r & t details.   |

**PERFORATION RECORD**

|  |            |                       |
|--|------------|-----------------------|
| 4585'  | 3 SPF      | 3 holes               |
| 4722'  | 2 SPF      | 2 holes               |
| 4728'  | 2 SPF      | 2 holes               |
| 4734'  | 2 SPF      | 2 holes               |
| 5056'  | 2 SPF      | 2 holes               |
| 5447', 5451', 5453', 5460', 5467', 5492', 5494', 5496', 5498', 5503', 5828', 5830' |            |                       |
| 1 SPF  | 12 holes   |                       |
| 05/10/07   | 5052-5059' | 4 JSPF 2 holes reperf |
| 05/10/07   | 4720-4738' | 4 JSPF 6 holes reperf |
| 05/10/07   | 4581-4588' | 4 JSPF 3 holes reperf |

**NEWFIELD****Goates #3-14-9-16**

970' FNL &amp; 970' FWL

NWNW Section 14-T9S-R16E

Duchesne Co, Utah

API #43-013-15791; Lease #U-096547

## Jonah G-14-9-16

Spud Date: 01/18/2010  
Put on Production: 02/22/2010  
GL: 5600' KB: 5612'

Wellbore Diagram

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (309.41')  
DEPTH LANDED: 321.21'  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sxs Class "G" cmt

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 144 jts. (6024.94')  
HOLE SIZE: 7-7/8"  
TOTAL DEPTH: 6038.89'  
CEMENT DATA: 275 sxs Prem. Lite II mixed & 400 sxs 50/50 POZ.  
CEMENT TOP AT: 76'

**TUBING**

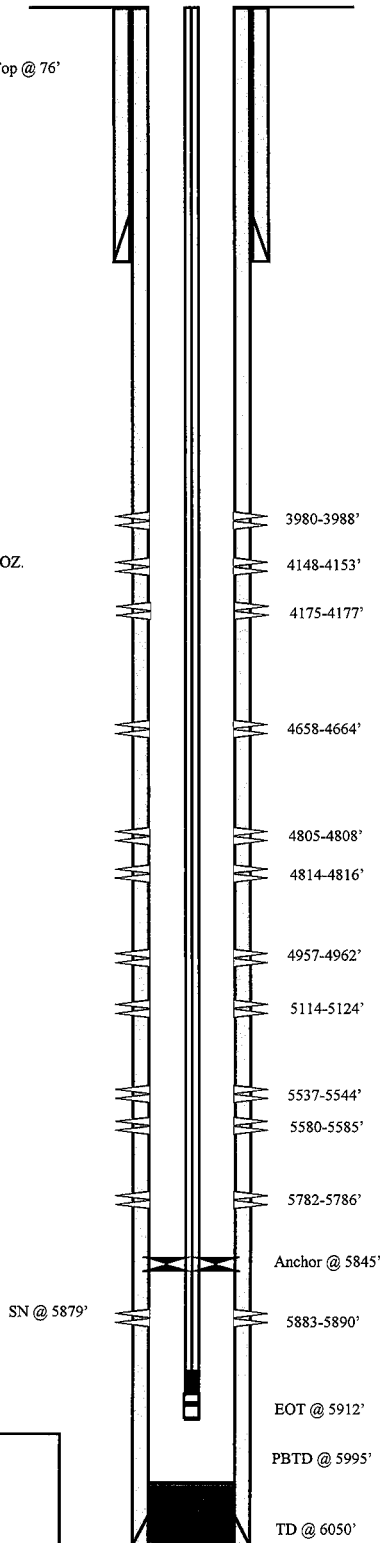
SIZE/GRADE/WT.: 2-7/8" / J-55 / 6.5#  
NO. OF JOINTS: 185 jts (5832.9')  
TUBING ANCHOR: 5844.9'  
NO. OF JOINTS: 1 jts (31.6')  
SEATING NIPPLE: 2-7/8" (1.1')  
SN LANDED AT: 5879.3' KB  
NO. OF JOINTS: 1 jts (31.6')  
TOTAL STRING LENGTH: EOT @ 5912'

**SUCKER RODS**

POLISHED ROD: 1-1/2" x 26'  
SUCKER RODS: 1 - 2' x 7/8", 1 - 6' x 7/8" pony rods; 230 - 7/8" 8per guided rods; 4 - 1 1/2" weight bars  
PUMP SIZE: 2 1/2 x 1 3/4 x 21' x 24' RHAC  
STROKE LENGTH: 144  
PUMP SPEED: SPM 5

**FRAC JOB**

|         |            |  |
|---------|------------|--|
| 2-23-10 | 5782-5890' | <b>Frac CP4 &amp; CP5 sands as follows:</b><br>Frac with 45031# 20/40 sand in 295 bbls Lightning 17 fluid. |
| 2-23-10 | 5537-5585' | <b>Frac CP1 &amp; CP2 sands as follows:</b><br>Frac with 19391# 20/40 sand in 166 bbls Lightning 17 fluid. |
| 2-23-10 | 5114-5124' | <b>Frac A3 sands as follows:</b> Frac with 34848# 20/40 sand in 230 bbls Lightning 17 fluid.               |
| 2-23-10 | 4805-4962' | <b>Frac C &amp; B2 sands as follows:</b><br>Frac with 34451# 20/40 sand in 233 bbls Lightning 17 fluid.    |
| 2-23-10 | 4658-4664' | <b>Frac D1 sands as follows:</b> Frac with 15287# 20/40 sand in 116 bbls Lightning 17 fluid.               |
| 2-23-10 | 4148-4177' | <b>Frac GB6 sands as follows:</b> Frac with 19912# 20/40 sand in 170 bbls Lightning 17 fluid.              |
| 2-23-10 | 3980-3988' | <b>Frac GB2 sands as follows:</b> Frac with 11909# 20/40 sand in 102 bbls Lightning 17 fluid.              |

**PERFORATION RECORD**

|            |        |          |
|------------|--------|----------|
| 5883-5890' | 3 JSPF | 21 holes |
| 5782-5786' | 3 JSPF | 12 holes |
| 5580-5585' | 3 JSPF | 15 holes |
| 5537-5544' | 3 JSPF | 21 holes |
| 5114-5124' | 3 JSPF | 30 holes |
| 4957-4962' | 3 JSPF | 15 holes |
| 4814-4816' | 3 JSPF | 6 holes  |
| 4805-4808' | 3 JSPF | 9 holes  |
| 4658-4664' | 3 JSPF | 18 holes |
| 4175-4177' | 3 JSPF | 6 holes  |
| 4148-4153' | 3 JSPF | 15 holes |
| 3980-3988' | 3 JSPF | 24 holes |



**Jonah G-14-9-16**  
457' FNL & 1827' FWL (NE/NW)  
Section 14, T9S, R16E  
Duchesne Co, Utah  
API # 43-013-34083; Lease # UTU-096547

## Jonah Fed N-14-9-16

Spud Date: 11/10/2008  
Put on Production: 11/29/2008

GL: 5682' KB: 5694'

**SURFACE CASING**

CSG SIZE: 8-5/8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts (313.61')  
DEPTH LANDED: 325.46' KB  
HOLE SIZE: 12-1/4"  
CEMENT DATA: 160 sx Class 'g' g cmt

**PRODUCTION CASING**

CSG SIZE: 5-1/2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 157 jts (6281.96')  
DEPTH LANDED: 6137.62'  
HOLE SIZE: 7-7/8"  
CEMENT DATA: 280 sx primlite and 425 sx class 'g'  
CEMENT TOP AT: 136'

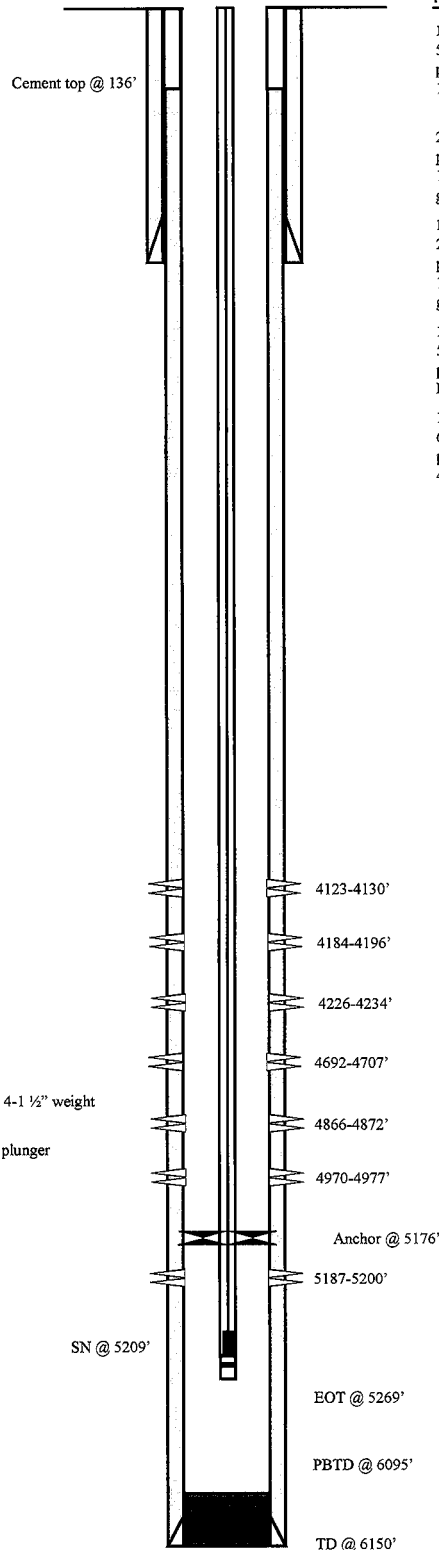
**TUBING**

SIZE/GRADE/WT.: 2-7/8" / J-55  
NO. OF JOINTS: 168 jts (5161.43')  
TUBING ANCHOR: 5176.13' KB  
NO. OF JOINTS: 1 jt (30.36')  
SEATING NIPPLE: 2-7/8" (1.10')  
SN LANDED AT: 5208.59' KB  
NO. OF JOINTS: 2 jts (61.36')  
TOTAL STRING LENGTH: EOT @ 5269.40'

**SUCKER RODS**

POLISHED ROD: 1 1/2" x 26' polished rod  
SUCKER RODS: 2', 8' x 7/8" ponies, 203-7/8" scraped rods, 4-1 1/2" weight bars  
PUMP SIZE: CDI 2 1/2" x 1 3/4" x 16' x 18' RHAC pump w/sm plunger  
STROKE LENGTH: 122"  
PUMP SPEED, SPM: 4

## Wellbore Diagram

**FRAC JOB**

12/12/08 5187-5200' Frac A3 sds as follows:  
54,910# 20/40 sand in 381 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2380 @ ave rate of 23.1 bpm w/ 8 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 1379.

12/17/08 4970-4977' RU BJ & frac B1 sds as follows:  
24,046# 20/40 sand in 667 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2400 w/ ave rate of 22 bpm w/ 6 ppg of sand. Spot 12 bbls of 15% HCL acid in flush for next stage. ISIP was 2107. Actual flush: 4527 gals.

12/17/08 4866-4872' RU BJ & frac stage #3 sds as follows:  
24,952# 20/40 sand in 359 bbls of Lightning 17 frac fluid. Treated @ ave pressure of 2506 w/ ave rate of 28 bpm w/ 6 ppg of sand. Spot 6 bbls of 15% HCL acid in flush for next stage. ISIP was 1670. Actual flush: 4670 gals.

12/18/08 4692-4707' Frac D1 sds as follows:  
55,615# 20/40 sand in 492 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1705 psi @ ave rate of 22.5 BPM. Pumped 504 gals of 15% HCL in flush for Stage #5. ISIP 1924 psi. Actual flush: 4192 gals.

12/18/08 4123-4234' Frac GB sds as follows:  
65,538# 20/40 sand in 570 bbls of Lightning 17 fluid. Treated w/ ave pressure of 1731 psi @ ave rate of 22.2 BPM. ISIP 2036 psi. Actual flush: 4036 gals.

**PERFORATION RECORD**

| Date     | Interval   | Tool   | Holes    |
|----------|------------|--------|----------|
| 12/9/08  | 4123-4130' | 4 JSPF | 28 holes |
| 12/9/08  | 4184-4196' | 4 JSPF | 48 holes |
| 12/9/08  | 4226-4234' | 4 JSPF | 32 holes |
| 12/9/08  | 4692-4707' | 4 JSPF | 60 holes |
| 12/10/08 | 4866-4872' | 4 JSPF | 24 holes |
| 12/10/08 | 4970-4977' | 4 JSPF | 56 holes |
| 12/10/08 | 5187-5200' | 4 JSPF | 52 holes |

**NEWFIELD****Jonah N-14-9-16**

1823' FSL &amp; 548' FWL

NW/SW Section 14-T9S-R16E

Duchesne Co, Utah

API # 43-013-34011 ; Lease # UTU-096547



# Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory  
1553 East Highway 40  
Vernal, UT 84078

Attachment F  
1 of 4



## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION (158)**

Sample ID: **WA-37209**

Well Name: **Federal 12-14-9-16**

Sample Point: **Treater**

Sample Date: **2/19/2010**

Sales Rep: **Randy Huber**

Lab Tech: **John Keel**

### Sample Specifics

|                             |           |
|-----------------------------|-----------|
| Test Date:                  | 2/19/2010 |
| Temperature (°F):           | 160       |
| Sample Pressure (psig):     | 0         |
| Specific Gravity (g/cm³):   | 1.0090    |
| pH:                         | 9.1       |
| Turbidity (NTU):            | -         |
| Calculated T.D.S. (mg/L)    | 12908     |
| Molar Conductivity (µS/cm): | 19558     |
| Resistivity (Mohm):         | 0.5113    |

### Analysis @ Properties in Sample Specifics

| Cations         | mg/L    | Anions              | mg/L    |
|-----------------|---------|---------------------|---------|
| Calcium (Ca):   | 40.00   | Chloride (Cl):      | 6000.00 |
| Magnesium (Mg): | -       | Sulfate (SO₄):      | 544.00  |
| Barium (Ba):    | 0.01    | Dissolved CO₂:      | -       |
| Strontium (Sr): | -       | Bicarbonate (HCO₃): | 1634.00 |
| Sodium (Na):    | 4675.00 | Carbonate (CO₃):    | -       |
| Potassium (K):  | -       | H₂S:                | 10.00   |
| Iron (Fe):      | 5.30    | Phosphate (PO₄):    | -       |
| Manganese (Mn): | 0.10    | Silica (SiO₂):      | -       |
| Lithium (Li):   | -       | Fluoride (F):       | -       |
| Aluminum (Al):  | -       | Nitrate (NO₃):      | -       |
| Ammonia NH₃:    | -       | Lead (Pb):          | -       |
|                 |         | Zinc (Zn):          | -       |
|                 |         | Bromine (Br):       | -       |
|                 |         | Boron (B):          | -       |

### Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl

| Test Conditions |                     | Calcium Carbonate<br>CaCO₃ |       | Gypsum<br>CaSO₄ · 2H₂O |          | Calcium Sulfate<br>CaSO₄ |          | Strontium Sulfate<br>SrSO₄ |       | Barium Sulfate<br>BaSO₄ |       | Calculated<br>CO₂ |
|-----------------|---------------------|----------------------------|-------|------------------------|----------|--------------------------|----------|----------------------------|-------|-------------------------|-------|-------------------|
| Temp<br>°F      | Gauge Press.<br>psi | Sat Index                  | Scale | Sat Index              | Scale    | Sat Index                | Scale    | Sat Index                  | Scale | Sat Index               | Scale | psi               |
| 160             | 0                   | 40.30                      | 56.65 | 0.02                   | -1708.30 | 0.01                     | -1549.00 | -                          | -     | 0.04                    | -0.44 | 0.02              |
| 80              | 0                   | 34.05                      | 62.28 | 0.01                   | -3.15    | 0.01                     | -2576.40 | -                          | -     | 0.17                    | -0.08 | 0.01              |
| 100             | 0                   | 39.13                      | 58.71 | 0.01                   | -2.16    | 0.01                     | -2408.90 | -                          | -     | 0.12                    | -0.13 | 0.01              |
| 120             | 0                   | 41.66                      | 56.60 | 0.01                   | -1.65    | 0.01                     | -2157.70 | -                          | -     | 0.08                    | -0.20 | 0.02              |
| 140             | 0                   | 41.97                      | 55.98 | 0.01                   | -1.39    | 0.01                     | -1860.30 | -                          | -     | 0.05                    | -0.30 | 0.02              |
| 160             | 0                   | 40.30                      | 56.65 | 0.02                   | -1.27    | 0.01                     | -1549.00 | -                          | -     | 0.04                    | -0.44 | 0.02              |
| 180             | 0                   | 37.16                      | 58.08 | 0.02                   | -1.24    | 0.02                     | -1247.90 | -                          | -     | 0.03                    | -0.62 | 0.02              |
| 200             | 0                   | 33.14                      | 59.45 | 0.02                   | -1.27    | 0.03                     | -972.90  | -                          | -     | 0.02                    | -0.87 | 0.02              |
| 220             | 2.51                | 28.57                      | 59.53 | 0.02                   | -1.36    | 0.05                     | -743.25  | -                          | -     | 0.01                    | -1.24 | 0.02              |
| 240             | 10.3                | 24.26                      | 55.18 | 0.03                   | -1.47    | 0.08                     | -538.58  | -                          | -     | 0.01                    | -1.70 | 0.02              |
| 260             | 20.76               | 20.20                      | 46.60 | 0.03                   | -1.61    | 0.13                     | -370.92  | -                          | -     | 0.01                    | -2.33 | 0.02              |
| 280             | 34.54               | 16.54                      | 37.68 | 0.03                   | -1.78    | 0.21                     | -238.15  | -                          | -     | 0.01                    | -3.16 | 0.02              |
| 300             | 52.34               | 13.30                      | 30.18 | 0.03                   | -1.96    | 0.34                     | -136.96  | -                          | -     | 0.00                    | -4.28 | 0.02              |

#### Conclusions:

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F  
Gypsum Scaling Index is negative from 80°F to 300°F  
Calcium Sulfate Scaling Index is negative from 80°F to 300°F  
Strontium Sulfate scaling was not evaluated  
Barium Sulfate Scaling Index is negative from 80°F to 300°F

#### Notes:



# Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078

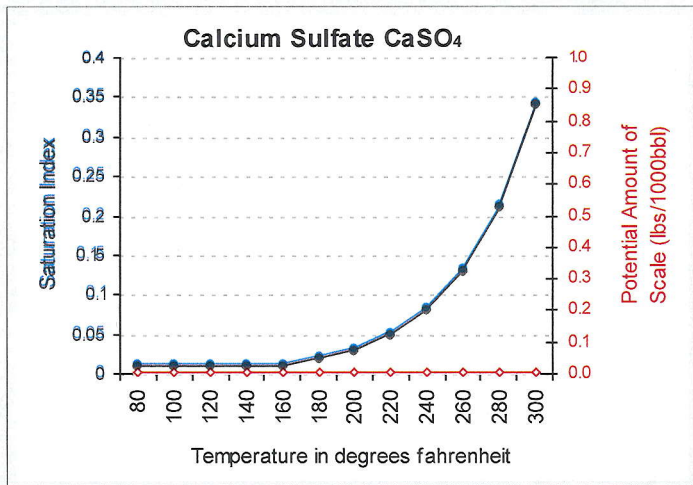
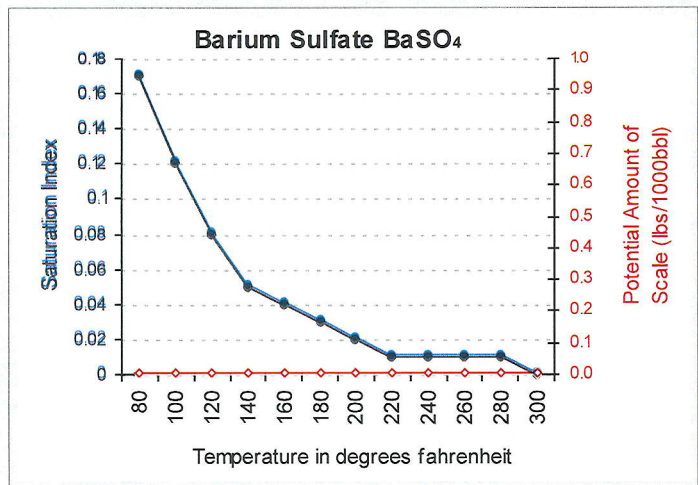
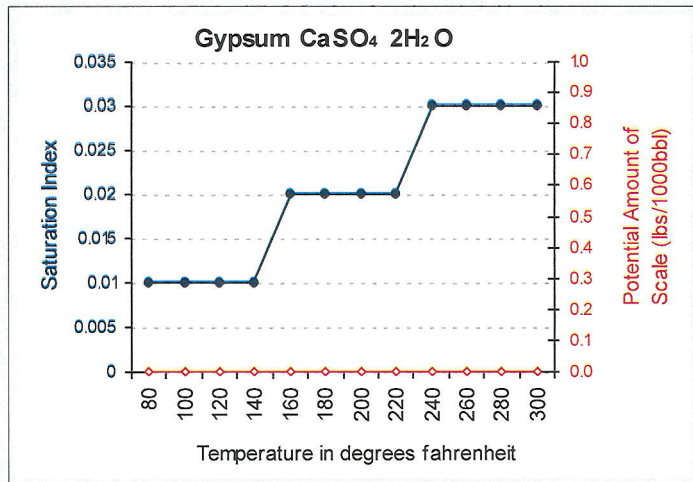
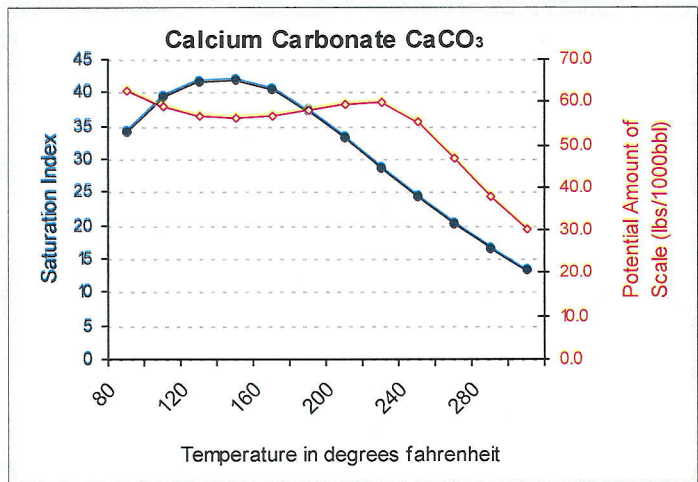
Attachment F  
2 of 4



## Scale Prediction Graphs

Well Name: **Federal 12-14-9-16**

Sample ID: **WA-37209**



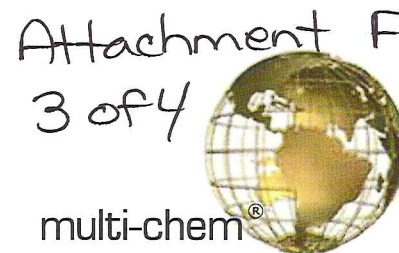


# Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

Vernal, UT 84078



## Water Analysis Report

Production Company: **NEWFIELD PRODUCTION (158)**

Sample ID: **WA-35267**

Well Name: **Beluga Injection**

Sample Point: **Tri-plex Suction**

Sample Date: **1 /5 /2010**

Sales Rep: **Randy Huber**

Lab Tech: **John Keel**

| Sample Specifics            |          |
|-----------------------------|----------|
| Test Date:                  | 1/5/2010 |
| Temperature (°F):           | 90       |
| Sample Pressure (psig):     | 0        |
| Specific Gravity (g/cm³):   | 1.0090   |
| pH:                         | 8.9      |
| Turbidity (NTU):            | -        |
| Calculated T.D.S. (mg/L):   | 10446    |
| Molar Conductivity (µS/cm): | 15828    |
| Resistivity (Mohm):         | 0.6318   |

| Analysis @ Properties in Sample Specifics |         |                     |         |
|---|---------|---------------------|---------|
| Cations                                   | mg/L    | Anions              | mg/L    |
| Calcium (Ca):                             | 80.00   | Chloride (Cl):      | 5000.00 |
| Magnesium (Mg):                           | 24.40   | Sulfate (SO₄):      | 419.00  |
| Barium (Ba):                              | 1.00    | Dissolved CO₂:      | -       |
| Strontium (Sr):                           | -       | Bicarbonate (HCO₃): | 1195.00 |
| Sodium (Na):                              | 3720.00 | Carbonate (CO₃):    | -       |
| Potassium (K):                            | -       | H₂S:                | 4.50    |
| Iron (Fe):                                | 1.85    | Phosphate (PO₄):    | -       |
| Manganese (Mn):                           | 0.50    | Silica (SiO₂):      | -       |
| Lithium (Li):                             | -       | Fluoride (F):       | -       |
| Aluminum (Al):                            | -       | Nitrate (NO₃):      | -       |
| Ammonia NH₃:                              | -       | Lead (Pb):          | -       |
|   |         | Zinc (Zn):          | -       |
|   |         | Bromine (Br):       | -       |
|   |         | Boron (B):          | -       |

| Test Conditions |       | Scale Values @ Test Conditions - Potential Amount of Scale in lb/1000bbl |        |                        |          |                          |          |                            |       |                         |       |                   |
|-----------------|-------|--|--------|------------------------|----------|--------------------------|----------|----------------------------|-------|-------------------------|-------|-------------------|
|                 |       | Calcium Carbonate<br>CaCO₃   |        | Gypsum<br>CaSO₄ · 2H₂O |          | Calcium Sulfate<br>CaSO₄ |          | Strontium Sulfate<br>SrSO₄ |       | Barium Sulfate<br>BaSO₄ |       | Calculated<br>CO₂ |
|                 |       | Sat Index  | Scale  | Sat Index              | Scale    | Sat Index                | Scale    | Sat Index                  | Scale | Sat Index               | Scale | psi               |
| 90              | 0     | 49.24  | 111.17 | 0.02                   | -2085.20 | 0.01                     | -2351.30 | -                          | -     | 12.30                   | 1.56  | 0.02              |
| 80              | 0     | 44.16  | 105.89 | 0.02                   | 47.31    | 0.01                     | -2417.70 | -                          | -     | 15.21                   | 1.59  | 0.02              |
| 100             | 0     | 53.68  | 113.99 | 0.02                   | 48.69    | 0.01                     | -2260.90 | -                          | -     | 10.01                   | 1.53  | 0.02              |
| 120             | 0     | 60.39  | 114.38 | 0.02                   | 48.41    | 0.02                     | -2025.80 | -                          | -     | 6.75                    | 1.45  | 0.02              |
| 140             | 0     | 64.25  | 111.45 | 0.02                   | 47.46    | 0.02                     | -1746.70 | -                          | -     | 4.64                    | 1.33  | 0.02              |
| 160             | 0     | 64.90  | 105.75 | 0.03                   | 46.17    | 0.03                     | -1453.00 | -                          | -     | 3.24                    | 1.17  | 0.02              |
| 180             | 0     | 62.66  | 95.44  | 0.03                   | 44.37    | 0.04                     | -1167.30 | -                          | -     | 2.30                    | 0.96  | 0.03              |
| 200             | 0     | 58.21  | 81.42  | 0.04                   | 41.69    | 0.06                     | -904.51  | -                          | -     | 1.65                    | 0.67  | 0.03              |
| 220             | 2.51  | 52.02  | 67.58  | 0.04                   | 37.93    | 0.09                     | -682.32  | -                          | -     | 1.18                    | 0.25  | 0.03              |
| 240             | 10.3  | 45.61  | 54.64  | 0.05                   | 32.65    | 0.14                     | -482.88  | -                          | -     | 0.86                    | -0.28 | 0.03              |
| 260             | 20.76 | 39.13  | 43.84  | 0.05                   | 26.60    | 0.23                     | -316.86  | -                          | -     | 0.63                    | -0.97 | 0.02              |
| 280             | 34.54 | 32.95  | 35.19  | 0.05                   | 20.60    | 0.38                     | -182.37  | -                          | -     | 0.47                    | -1.89 | 0.02              |
| 300             | 52.34 | 27.27  | 28.42  | 0.06                   | 15.23    | 0.62                     | -76.59   | -                          | -     | 0.35                    | -3.09 | 0.02              |

### Conclusions:

Calcium Carbonate scale is indicated at all temperatures from 80°F to 300°F

Gypsum Scaling Index is negative from 80°F to 300°F

Calcium Sulfate Scaling Index is negative from 80°F to 300°F

Strontium Sulfate scaling was not evaluated

Barium Sulfate NO CONCLUSION

### Notes:



# Multi-Chem Group, LLC

Multi-Chem Analytical Laboratory

1553 East Highway 40

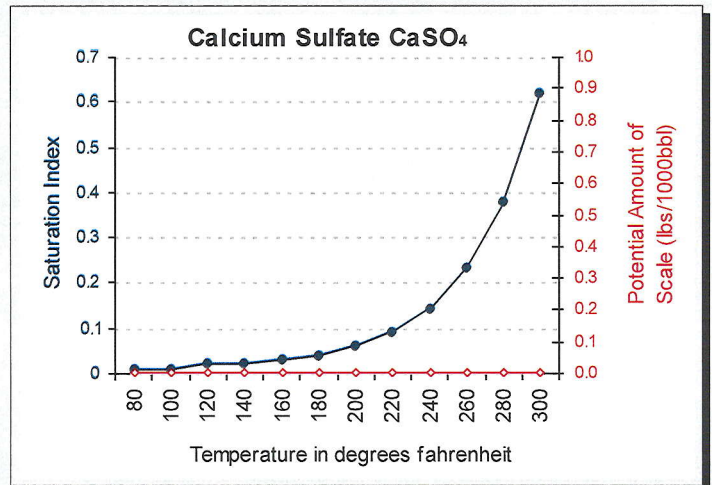
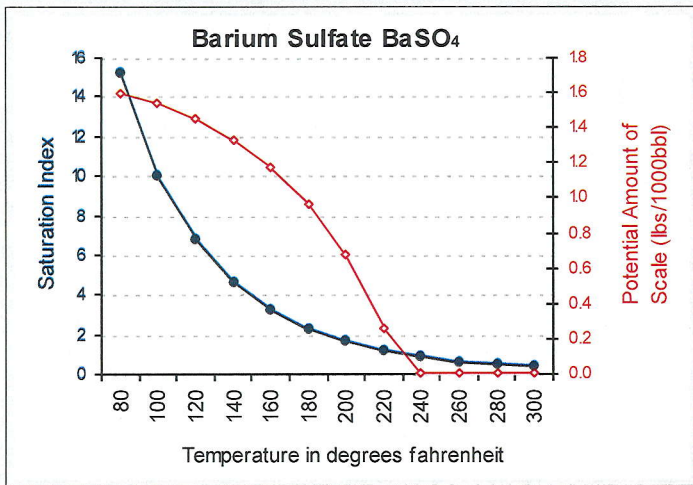
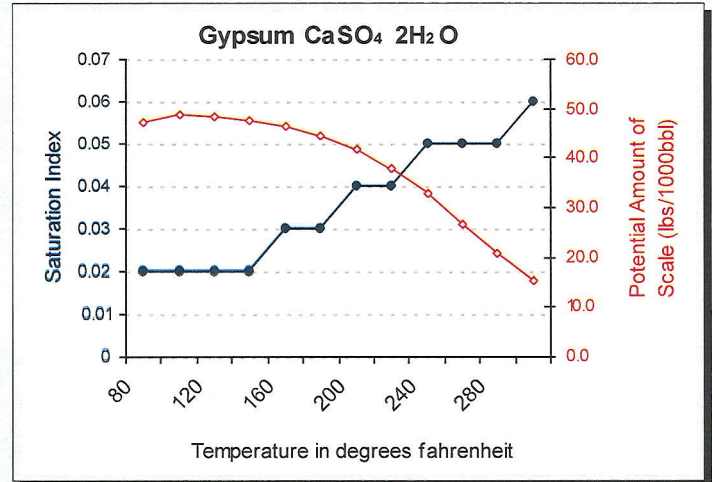
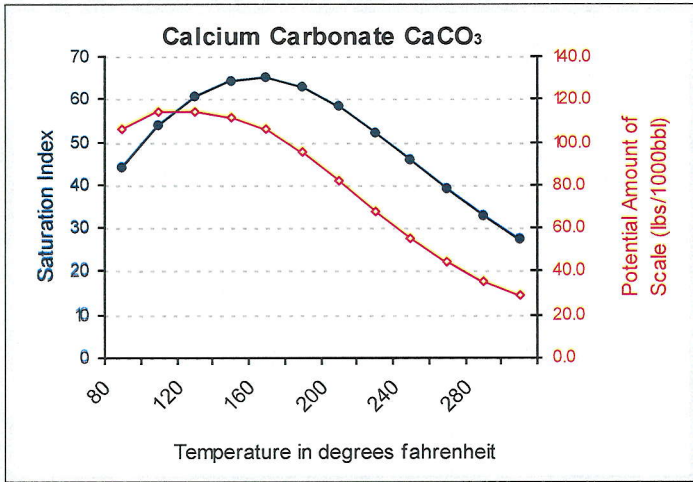
Vernal, UT 84078



## Scale Prediction Graphs

Well Name: **Beluga Injection**

Sample ID: **WA-35267**



**Attachment "G"**

**Jonah Federal 12-14-9-16  
Proposed Maximum Injection Pressure**

| Frac Interval<br>(feet) |        | Avg. Depth<br>(feet) | ISIP<br>(psi) | Calculated<br>Frac<br>Gradient<br>(psi/ft) | Pmax        |
|-------------------------|--------|----------------------|---------------|--|-------------|
| Top                     | Bottom |                      |               |  |             |
| 5551                    | 5716   | 5634                 | 1775          | 0.75                                       | 1739        |
| 5007                    | 5119   | 5063                 | 1900          | 0.81                                       | 1867        |
| 4691                    | 4712   | 4702                 | 1750          | 0.81                                       | 1720        |
| 4556                    | 4565   | 4561                 | 1820          | 0.83                                       | 1790        |
| 4008                    | 4067   | 4038                 | 1650          | 0.84                                       | 1624        |
|                         |        |                      |               | <b>Minimum</b>                             | <u>1624</u> |

**Calculation of Maximum Surface Injection Pressure**

$P_{max} = (\text{Frac Grad} - (0.433 \times 1.015)) \times \text{Depth of Top Perf}$   
where pressure gradient for the fresh water is .433 psi/ft and  
specific gravity of the injected water is 1.015.

$\text{Frac Gradient} = (\text{ISIP} + (0.433 \times \text{Top Perf.})) / \text{Top Perf.}$

**Please note:** These are existing perforations; additional perforations may be added during the actual conversion procedure.

# NEWFIELD



Attachment G-1  
1 of 11

## DAILY COMPLETION REPORT

**WELL NAME:** Jonah 12-14-9-16 **Report Date:** 7-1-05 **Day:** 01  
**Operation:** Completion **Rig:** Rigless

### WELL STATUS

**Surf Csg:** 8-5/8' @ 314' **Prod Csg:** 5-1/2" @ 5844' **Csg PBTD:** 5749'WL  
**Tbg:** Size: Wt: **Grd:** Pkr/EOT @: **BP/Sand PBTD:**

### PERFORATION RECORD

| Zone | Perfs | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-------|------------|---------|------------|------------|
|      |       |            |         |            |            |
|      |       |            | CP3 sds | 5551-5556' | 4/20       |
|      |       |            | CP5 sds | 5711-5716' | 4/20       |
|      |       |            |         |            |            |
|      |       |            |         |            |            |
|      |       |            |         |            |            |

### CHRONOLOGICAL OPERATIONS

**Date Work Performed:** 30-Jun-05 **SITP:**  **SICP:** 0

Instal 5M frac head. NU 6" 5M Cameron BOP. RU H/O truck & pressure test casing, blind rams, frac head, csg & casing valves to 4500 psi. RU Patterson WLT w/ mast & run CBL under pressure. WLTD @ 5749' & cement top @ 250'. Perforate stage #1, CP5 sds @ 5711-5716' & CP3 sds @ 5551-5556' w/ 4" Port guns (19 gram, .46"HE. 120°) w/ 4 spf for total of 40 shots. 138 bbls EWTR. SIFN.

### FLUID RECOVERY (BBLs)

**Starting fluid load to be recovered:** 138 **Starting oil rec to date:**   
**Fluid lost/recovered today:** 0 **Oil lost/recovered today:**   
**Ending fluid to be recovered:** 138 **Cum oil recovered:**   
**IFL:**  **FFL:**  **FTP:**  **Choke:**  **Final Fluid Rate:**  **Final oil cut:**

### STIMULATION DETAIL

**Base Fluid used:**  **Job Type:**   
**Company:**

**Procedure or Equipment detail:**

### COSTS

|                      |           |
|----------------------|-----------|
| Weatherford BOP      | \$130     |
| NPC NU crew          | \$300     |
| NDSI trucking        | \$1,400   |
| Patterson WLT        | \$5,010   |
| Drilling cost        | \$251,169 |
| Zubiate Hot Oil      | \$450     |
| Location preparation | \$300     |
| NPC wellhead         | \$1,500   |
| Benco - anchors      | \$1,200   |
| Admin. Overhead      | \$3,000   |
| NPC Supervisor       | \$300     |
|                      |           |
|                      |           |
|                      |           |

**Max TP:**  **Max Rate:**  **Total fluid pmpd:**   
**Avg TP:**  **Avg Rate:**  **Total Prop pmpd:**   
**ISIP:**  **5 min:**  **10 min:**  **FG:**

**Completion Supervisor:** Ron Shuck

**DAILY COST:** \$264,759  
**TOTAL WELL COST:** \$264,759



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16Report Date: 7-6-05Day: 2Operation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5749'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 5220'

## PERFORATION RECORD

| Zone | Perfs | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-------|------------|---------|------------|------------|
|      |       |            | A1      | 5007- 18'  | 4/44       |
|      |       |            | LODC    | 5113- 19'  | 4/24       |
|      |       |            | CP3 sds | 5551-5556' | 4/20       |
|      |       |            | CP5 sds | 5711-5716' | 4/20       |
|      |       |            |         |            |            |
|      |       |            |         |            |            |
|      |       |            |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 05-Jul-05SITP:            SICP: 0

RU BJ's "Ram head". 0 psi on well. Frac CP5 & CP3 sds (Stage #1) w/ 25,908#'s of 20/40 sand in 306 bbls of Lightning 17 fluid. Broke @ 2960 psi. Treated w/ ave pressure of 1599 psi @ ave rate of 25 BPM. ISIP 1775 psi. BJ did not get 5 bbls of acid pumped in flush due to air valve problems. RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug, 6' & 11' perf guns (3 1/8" slick guns). Set plug @ 5220'. Perforate LODC sds 5113- 5119', A1 sds 5007- 5018'. All 4 SPF for a total of 68 holes. Leave pressure on well. 444 bbls EWTR. SIFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 138 Starting oil rec to date:             
 Fluid lost/recovered today: 306 Oil lost/recovered today:             
 Ending fluid to be recovered: 444 Cum oil recovered:             
 IFL:            FFL:            FTP:            Choke:            Final Fluid Rate:            Final oil cut:           

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: CP5 & CP3 sds down casing546 gals to get crosslink2000 gals of pad1569 gals w/ 1-5 ppg of 20/40 sand3185 gals w/ 5-8 ppg of 20/40 sandFlush w/ 5552 gals of slick water\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*Max TP: 1730 Max Rate: 25.1 BPM Total fluid pmpd: 306 bblsAvg TP: 1599 Avg Rate: 25 BPM Total Prop pmpd: 25,908#'sISIP: 1775 5 min:            10 min:            FG: .75Completion Supervisor: Orson Barney

## COSTS

|                      |          |
|----------------------|----------|
| Weatherford BOP      | \$130    |
| BJ Services (CP5&3)  | \$16,436 |
| Betts wtr & trucking | \$359    |
| NPC fuel gas         | \$64     |
| NPC Supervisor       | \$300    |
| NPC trucking         | \$400    |
|                      |          |
|                      |          |
|                      |          |
|                      |          |
|                      |          |
|                      |          |
|                      |          |
|                      |          |

DAILY COST:            \$17,689TOTAL WELL COST:            \$282,448





## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16 Report Date: 7-7-05 Day: 3a  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5749'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 5220'

## PERFORATION RECORD

| Zone | Perfs | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-------|------------|---------|------------|------------|
|      |       |            | A1      | 5007- 18'  | 4/44       |
|      |       |            | LODC    | 5113- 19'  | 4/24       |
|      |       |            | CP3 sds | 5551-5556' | 4/20       |
|      |       |            | CP5 sds | 5711-5716' | 4/20       |
|      |       |            |         |            |            |
|      |       |            |         |            |            |
|      |       |            |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Jul-05 SITP: SICP: 827 psi

## Day 3a.

827 psi on well. Frac LODC & A1 sds (Stage #2) w/ 45,085#'s of 20/40 sand in 409 bbls of Lightning 17 fluid. Broke @ 2890 psi. Treated w/ ave pressure of 1818 psi @ ave rate of 24.9 BPM. ISIP 1900 psi. Pumped 5 bbls of 15% HCL acid in flush for next stage. Leave pressure on well. 853 bbls EWTR. See Day3b.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 444 Starting oil rec to date:   
 Fluid lost/recovered today: 409 Oil lost/recovered today:   
 Ending fluid to be recovered: 853 Cum oil recovered:   
 IFL: FLL: FTP: Choke: Final Fluid Rate: Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services  
 Procedure or Equipment detail: LODC & A1 sds down casing

3600 gals of pad

2819 gals w/ 1-5 ppg of 20/40 sand

5761 gals w/ 5-8 ppg of 20/40 sand

210 gals of 15% HCL acid

Flush w/ 4788 gals of slick water

\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: 2070 Max Rate: 25.2 BPM Total fluid pmpd: 409 bls

Avg TP: 1818 Avg Rate: 24.9 BPM Total Prop pmpd: 45,085#'s

ISIP: 1900 5 min: 10 min: FG: .81

Completion Supervisor: Orson Barney

## COSTS

|                      |          |
|----------------------|----------|
| Weatherford BOP      | \$26     |
| BJ Service (LODC/A1) | \$12,228 |
| Betts wtr & trucking | \$672    |
| NPC fuel gas         | \$120    |
| NPC Supervisor       | \$60     |
| Lone Wolf (LODC/A1)  | \$5,473  |

DAILY COST: \$18,579

TOTAL WELL COST: \$301,027



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16Report Date: 7-7-05Day: 3bOperation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5749'WL  
 Tbg: Size: \_\_\_\_\_ Wt: \_\_\_\_\_ Grd: \_\_\_\_\_ Pkr/EOT @: \_\_\_\_\_ BP/Sand PBTD: 4960'  
 BP 5220'

## PERFORATION RECORD

| Zone | Perfs     | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-----------|------------|---------|------------|------------|
|      |           |            | A1      | 5007- 18'  | 4/44       |
|      |           |            | LODC    | 5113- 19'  | 4/24       |
|      |           |            | CP3 sds | 5551-5556' | 4/20       |
|      |           |            | CP5 sds | 5711-5716' | 4/20       |
| B2   | 4847- 56' | 4/36       |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Jul-05SITP: \_\_\_\_\_ SICP: 1400 psi

## Day 3b.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug & 9' perf gun (3 1/8" slick). Set plug @ 4960'. Perforated B2 sds: 4847- 4856'. All 4 SPF for a total of 36 holes. RU BJ Services. 1400 psi on well. Pressured up to 4200 psi, Would not breakdown after serval attempts. RU Lone Wolf WL, Dump bail acid on A1 sds. RU BJ Services. Pressured up to 4200 psi, Would not breakdown. RU Lone Wolf & dump bail acid a second time. RU BJ Services. Pressured up to 4200 psi. Would not breakdown. Surged well back. Pressure up on well to 4200 psi. Would not breakdown. Decision was made to skip Stage #3. (Come back and frac down tbg.) Leave pressure on well. 853 bbls EWTR. See Day3c.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 853 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 0 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 853 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand fracCompany: BJ ServicesProcedure or Equipment detail: B2 sds down casing

## COSTS

Weatherford BOP \$26NPC Supervisor \$60Lone Wolf (B2) \$3,994

\_\_\_\_\_ gals of pad

\_\_\_\_\_ gals w/ 1-5 ppg of 20/40 sand

\_\_\_\_\_ gals w/ 5-8 ppg of 20/40 sand

\_\_\_\_\_ gals of 15% HCL acid

Flush w/ \_\_\_\_\_ gals of slick water

\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_

Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_

ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Orson BarneyDAILY COST: \$4,080TOTAL WELL COST: \$305,107



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16Report Date: 7-7-05Day: 3cOperation: CompletionRig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5749'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4800'  
 BP 4960', 5220'

## PERFORATION RECORD

| Zone | Perfs            | SPF/#shots  | Zone    | Perfs             | SPF/#shots  |
|------|------------------|-------------|---------|-------------------|-------------|
|      |                  |             | A1      | <u>5007- 18'</u>  | <u>4/44</u> |
|      |                  |             | LODC    | <u>5113- 19'</u>  | <u>4/24</u> |
|      |                  |             | CP3 sds | <u>5551-5556'</u> | <u>4/20</u> |
|      |                  |             | CP5 sds | <u>5711-5716'</u> | <u>4/20</u> |
| C    | <u>4691- 99'</u> | <u>4/32</u> |         |                   |             |
| C    | <u>4702- 12'</u> | <u>4/40</u> |         |                   |             |
| B2   | <u>4847- 56'</u> | <u>4/36</u> |         |                   |             |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Jul-05SITP: SICP:

## Day 3c.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug, 10' & 8' perf gun (3 1/8" slick). Set plug @ 4800'. Perforated C sds: 4702- 4712', 4691- 99'. All 4 SPF for a total of 72 holes. RU BJ Services. 1170 psi on well. RU BJ Services. Frac C sds (Stage #4)w/ 99,846#'s of 20/40 sand in 706 bbls of Lightning 17 fluid. Broke @ 4125 psi. Treated w/ ave pressure of 1733 psi @ ave rate of 25 BPM. ISIP 1750 psi. Pumped 5 bbls of 15% HCL acid in flush for next stage. Leave pressure on well. 1559 bbls EWTR. **See Day3d.**

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 853 Starting oil rec to date:   
 Fluid lost/recovered today: 706 Oil lost/recovered today:   
 Ending fluid to be recovered: 1559 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: C sds down casing  
7500 gals of pad  
5000 gals w/ 1-5 ppg of 20/40 sand  
10000 gals w/ 5-8 ppg of 20/40 sand  
2452 gals w/ 8 ppg of 20/40 sand  
210 gals of 15% HCL acid  
Flush w/ 4490 gals of slick water  
\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

## COSTS

|                      |          |
|----------------------|----------|
| Weatherford BOP      | \$26     |
| BJ Services (C sds)  | \$28,500 |
| Betts wtr & trucking | \$1,434  |
| NPC fuel gas         | \$256    |
| NPC Supervisor       | \$60     |
| Lone Wolf (C sds)    | \$4,107  |

Max TP: 2165 Max Rate: 25.3 BPM Total fluid pmpd: 706 bbls  
 Avg TP: 1733 Avg Rate: 25 BPM Total Prop pmpd: 99,846#'s  
 ISIP: 1750 5 min:  10 min:  FG: .81

Completion Supervisor: Orson Barney

DAILY COST: \$34,383  
 TOTAL WELL COST: \$339,490



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16 Report Date: 7-7-05 Day: 3d  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5749'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4620'  
 BP 4800', 4960', 5220'

## PERFORATION RECORD

| Zone | Perfs     | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-----------|------------|---------|------------|------------|
|      |           |            | A1      | 5007- 18'  | 4/44       |
|      |           |            | LODC    | 5113- 19'  | 4/24       |
| D1   | 4556- 65' | 4/36       | CP3 sds | 5551-5556' | 4/20       |
| C    | 4691- 99' | 4/32       | CP5 sds | 5711-5716' | 4/20       |
| C    | 4702- 12' | 4/40       |         |            |            |
| B2   | 4847- 56' | 4/36       |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Jul-05 SITP: SICP: 1275 psi

## Day 3d.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug & 9' perf gun (3 1/8" slick). Set plug @ 4620'. Perforated D1 sds: 4556- 4565'. All 4 SPF for a total of 36 holes. RU BJ Services. 1275 psi on well. RU BJ Services. Frac D1 sds (Stage #5) w/ 54,984#'s of 20/40 sand in 446 bbls of Lightning 17 fluid. Broke @ 4202 psi. Treated w/ ave pressure of 1773 psi @ ave rate of 25 BPM. ISIP 1820 psi. Pumped 5 bbls of 15% HCL acid in flush for next stage. Leave pressure on well. 2005 bbls EWTR. See Day3e.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 1559 Starting oil rec to date:   
 Fluid lost/recovered today: 446 Oil lost/recovered today:   
 Ending fluid to be recovered: 2005 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services

Procedure or Equipment detail: D1 sds down casing  
4400 gals of pad  
2944 gals w/ 1-5 ppg of 20/40 sand  
5872 gals w/ 5-8 ppg of 20/40 sand  
972 gals w/ 8 ppg of 20/40 sand  
210 gals of 15% HCL acid  
Flush w/ 4334 gals of slick water  
\*\*Flush called @ blender to include 2 bbls pump/line volume\*\*

Max TP: 2080 Max Rate: 25.3 BPM Total fluid pmpd: 446 bbls  
 Avg TP: 1773 Avg Rate: 25 BPM Total Prop pmpd: 54,984#'s  
 ISIP: 1820 5 min:  10 min:  FG: .83

Completion Supervisor: Orson Barney

## COSTS

|                      |          |
|----------------------|----------|
| Weatherford BOP      | \$26     |
| BJ Services (D1 sds) | \$13,695 |
| Betts wtr & trucking | \$807    |
| NPC fuel gas         | \$144    |
| NPC Supervisor       | \$60     |
| Lone Wolf (D1 sds)   | \$2,054  |

DAILY COST: \$16,786  
 TOTAL WELL COST: \$356,276



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16 Report Date: 7-7-05 Day: 3e  
 Operation: Completion Rig: Rigless

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5749'WL  
 Tbg: Size: Wt: Grd: Pkr/EOT @: BP/Sand PBTD: 4160'  
BP 4620', 4800', 4960', 5220'

## PERFORATION RECORD

| Zone | Perfs     | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-----------|------------|---------|------------|------------|
| GB2  | 4008- 26' | 4/72       | A1      | 5007- 18'  | 4/44       |
| GB4  | 4060- 67' | 4/28       | LODC    | 5113- 19'  | 4/24       |
| D1   | 4556- 65' | 4/36       | CP3 sds | 5551-5556' | 4/20       |
| C    | 4691- 99' | 4/32       | CP5 sds | 5711-5716' | 4/20       |
| C    | 4702- 12' | 4/40       |         |            |            |
| B2   | 4847- 56' | 4/36       |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 06-Jul-05 SITP:  SICP: 1382 psi

## Day 3e.

RU Lone Wolf WLT, Crane & lubricator. RIH w/ Weatherford 5 1/2" composite flow through plug, 7' & 18' perf gun (3 1/8" slick). Set plug @ 4160'. Perforated GB4 sds: 4060- 4067', GB2 sds: 4008- 4026'. All 4 SPF for a total of 100 holes. RU BJ Services. 1382 psi on well. RU BJ Services. Frac GB4 & GB2 sds (Stage #6) w/ 60,730#'s of 20/40 sand in 457 bbls of Lightning 17 fluid. Broke @ 4110 psi. Treated w/ ave pressure of 1425 psi @ ave rate of 25 BPM. ISIP 1650 psi. Begin immediate flowback on 12/64 choke @ 1 BPM. Flowed for 3 hrs & died. Rec 192 BTF (8% of total frac load). 2270 bbls EWTR. SIWFN.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2005 Starting oil rec to date:   
 Fluid lost/recovered today: 265 Oil lost/recovered today:   
 Ending fluid to be recovered: 2270 Cum oil recovered:   
 IFL:  FFL:  FTP:  Choke:  Final Fluid Rate:  Final oil cut:

## STIMULATION DETAIL

Base Fluid used: Lightning 17 Job Type: Sand frac  
 Company: BJ Services  
 Procedure or Equipment detail: GB4 & GB2 sds down casing  
4600 gals of pad  
3000 gals w/ 1-5 ppg of 20/40 sand  
6000 gals w/ 5-8 ppg of 20/40 sand  
1693 gals w/ 8 ppg of 20/40 sand  
Flush w/ 3901 gals of slick water

## COSTS

|                       |          |
|-----------------------|----------|
| Weatherford BOP       | \$26     |
| BJ Services (GB4 & 2) | \$16,697 |
| Betts wtr & trucking  | \$852    |
| NPC fuel gas          | \$152    |
| NPC Supervisor        | \$60     |
| Lone Wolf (GB4 & 2)   | \$5,704  |
| NPC flowback hand     | \$150    |

Max TP: 1655 Max Rate: 25.3 BPM Total fluid pmpd: 457 bbls  
 Avg TP: 1425 Avg Rate: 25 BPM Total Prop pmpd: 60,730#'s  
 ISIP: 1650 5 min:  10 min:  FG: .84  
 Completion Supervisor: Orson Barney

DAILY COST: \$23,641  
 TOTAL WELL COST: \$379,917



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16Report Date: 7-8-05Day: 4Operation: CompletionRig: NC#2

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5749'WL  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: j-55 Pkr/EOT @: 4650' BP/Sand PBTD: 4800', 4960', 5220'  
 BP

## PERFORATION RECORD

| Zone | Perfs     | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-----------|------------|---------|------------|------------|
| GB2  | 4008- 26' | 4/72       | A1      | 5007- 18'  | 4/44       |
| GB4  | 4060- 67' | 4/28       | LODC    | 5113- 19'  | 4/24       |
| D1   | 4556- 65' | 4/36       | CP3 sds | 5551-5556' | 4/20       |
| C    | 4691- 99' | 4/32       | CP5 sds | 5711-5716' | 4/20       |
| C    | 4702- 12' | 4/40       |         |            |            |
| B2   | 4847- 56' | 4/36       |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 07-Jul-05SITP:            SICP: 1382 psi

MIRU NC#2. ND Cameron bops & 5m frac head. NU 3m production head & BOPS. RIH w/ Weatherford chomp bit, bit sub & 2 7/8" tbg. Tag @ 4108'. RU powerswivel & pump. C/O to CBP @ 4160'. DU CBP in 23 min. Cont. RIH w/ tbg. Tag @ 4569'. C/O to CBP @ 4620'. DU CBP in 18 min. RIH w/ tbg. to 4650'. Circulate well clean.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2270 Starting oil rec to date:             
 Fluid lost/recovered today: 30 Oil lost/recovered today:             
 Ending fluid to be recovered: 2300 Cum oil recovered:             
 IFL:            FFL:            FTP:            Choke:            Final Fluid Rate:            Final oil cut:           

## STIMULATION DETAIL

Base Fluid used:            Job Type:             
 Company:           

## COSTS

|                         | NC #2            |
|-------------------------|------------------|
| Weatherford bops(3days) | \$420            |
| Liddell trucking        | \$520            |
| Aztec tbg.              | \$29,760         |
| NDSI water & trucks     | \$400            |
| Monks pit reclaim       | \$1,800          |
| NPC surface equip.      | \$120,000        |
| R & T labor/welding     | \$13,600         |
| NPC location cleanup    | \$300            |
| RNI water disposal      | \$3,000          |
| Weatherford chomp bit   | \$900            |
| Mtn. West sanitation    | \$450            |
| NPC supervision         | \$300            |
| <b>DAILY COST:</b>      | <b>\$174,134</b> |
| <b>TOTAL WELL COST:</b> | <b>\$554,051</b> |

Max TP:            Max Rate:            Total fluid pmpd:             
 Avg TP:            Avg Rate:            Total Prop pmpd:             
 ISIP:            5 min:            10 min:            FG:             
 Completion Supervisor: Don Dulen



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16Report Date: 7-9-05Day: 5Operation: CompletionRig: NC#2

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5800'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: j-55 Pkr/EOT @: 3800' BP/Sand PBTD: \_\_\_\_\_

## PERFORATION RECORD

| Zone | Perfs     | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-----------|------------|---------|------------|------------|
| GB2  | 4008- 26' | 4/72       | A1      | 5007- 18'  | 4/44       |
| GB4  | 4060- 67' | 4/28       | LODC    | 5113- 19'  | 4/24       |
| D1   | 4556- 65' | 4/36       | CP3 sds | 5551-5556' | 4/20       |
| C    | 4691- 99' | 4/32       | CP5 sds | 5711-5716' | 4/20       |
| C    | 4702- 12' | 4/40       |         |            |            |
| B2   | 4847- 56' | 4/36       |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 08-Jul-05SITP: 175 SICP: 150

Bleed off well. Cont. RIH w/ tbg. Tag @ 4714'. C/O to CBP @ 4800'. DU CBP in 25 min. Cont. RIH w/ tbg. Tag CBP @ 4960'. DU CBP in 28 min. Cont. RIH w/ tbg. Tag CBP @ 5220'. DU CBP in 20 min. Cont. RIH w/ tbg. Tag @ 5442'. C/O to PBTD @ 5800'. Circulate well clean. POOH w/ tbg. LD bit & bit sub. RIH w/ 5 1/2" ts plug, on/off tool, 4' x 2 3/8" tbg. sub, 5 1/2" hd pkr & tbg. to 3800'.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2300 Starting oil rec to date: \_\_\_\_\_  
 Fluid lost/recovered today: 50 Oil lost/recovered today: \_\_\_\_\_  
 Ending fluid to be recovered: 2350 Cum oil recovered: \_\_\_\_\_  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## STIMULATION DETAIL

Base Fluid used: \_\_\_\_\_ Job Type: \_\_\_\_\_

Company: \_\_\_\_\_

## COSTS

|                 |         |
|-----------------|---------|
| NC #2           | \$3,487 |
| Weatherford bop | \$140   |
| NPC trucking    | \$600   |
| Four Star       | \$450   |

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_

Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_

ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Don DulenNPC supervision \$300DAILY COST: \$4,977TOTAL WELL COST: \$559,028





## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16Report Date: 7-12-05Day: 6Operation: CompletionRig: NC#2

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5800'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: j-55 Pkr/EOT @: 5711' BP/Sand PBTD:

## PERFORATION RECORD

| Zone | Perfs     | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-----------|------------|---------|------------|------------|
| GB2  | 4008- 26' | 4/72       | A1      | 5007- 18'  | 4/44       |
| GB4  | 4060- 67' | 4/28       | LODC    | 5113- 19'  | 4/24       |
| D1   | 4556- 65' | 4/36       | CP3 sds | 5551-5556' | 4/20       |
| C    | 4691- 99' | 4/32       | CP5 sds | 5711-5716' | 4/20       |
| C    | 4702- 12' | 4/40       |         |            |            |
| B2   | 4847- 56' | 4/36       |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 11-Jul-05SITP: 200 SICP: 450

Bleed off well. Circulate well clean (well showed gas & approx. 75 bbls oil). RIH w/ tools. Set TS plug @ 4909'. Pull up hole. PU frac valve. Set HD pkr. @ 4801'. EOT @ 4811'. RU BJ frac crew. Frac stage #3 down tbg w/ 28,119#'s of 20/40 sand in 234 bbls of Lightning 17 frac fluid. Back side stayed full through frac w/ 122 psi. Perfs broke down @ 4351 psi, back to 3480 psi. Treated @ ave pressure of 3197 w/ ave rate of 14.7 bpm w/ 6.5 ppg of sand. ISIP was 2000. RD BJ. Begin immediate flow back on tbg @ 1900 psi. Well flowed for 1.5 hours & died (recovered 90 bbls water). RU pump to csg. Start pumping down csg. Release PKR. RIH w/ tbg. Tag @ 4879'. C/O to plug. Circulate well clean. POOH w/ tbg. LD plug & pkr. RIH w/ 2 7/8" notched collar, 2 jts 2 7/8" tbg., PSN, 1 jt 2 7/8" tbg., 5 1/2" TAC, 172 jts 2 7/8" tbg. RU swab. SFL @ surface. Made 17 runs. Recovered 150 bbls (135 water, 15 oil). Good show of gas. Small show of sand on runs 8-13, then no sand. Ending oil cut @ approx. 20%. EFL @ 700'.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2584 Starting oil rec to date: 0  
 Fluid lost/recovered today: 170 Oil lost/recovered today: 90  
 Ending fluid to be recovered: 2414 Cum oil recovered: 90  
 IFL: surface FFL: 700' FTP:  Choke:  Final Fluid Rate:  Final oil cut: 20%

## STIMULATION DETAIL

## COSTS

Base Fluid used: Lightning 17 Job Type: and frac  
 Company: BJ Services

B2 snd down tbg  
 2520 gals of pad  
 1915 gals w/ 1-4 ppg of 20/40 sand  
 4259 gals w/ 4-6.5 ppg of 20/40 sand  
 Flush w/ 1134 gals of slick water

|                      |           |
|----------------------|-----------|
| NC #2                | \$3,756   |
| Weatherford bop      | \$140     |
| Zubiate hot oil      | \$468     |
| Unichem              | \$300     |
| BJ Services B2 sds   | \$18,492  |
| Weatherford Services | \$2,887   |
| Betts frac water     | \$600     |
| NPC fuel gas         | \$100     |
| Betts water transfer | \$200     |
| RNI water truck      | \$300     |
| CDI TAC              | \$480     |
| CDI PSN              | \$75      |
| NPC supervision      | \$300     |
| DAILY COST:          | \$28,098  |
| TOTAL WELL COST:     | \$587,126 |

Max TP: 3434 Max Rate: 14.7 Total fluid pmpd: 234 bbls  
 Avg TP: 3197 Avg Rate: 14.7 Total Prop pmpd: 28,119#'s  
 ISIP: 2000 5 min:  10 min:  FG: .85  
 Completion Supervisor: Don Dulen



## DAILY COMPLETION REPORT

WELL NAME: Jonah 12-14-9-16 Report Date: 7-13-05 Day: 7  
 Operation: Completion Rig: NC#2

## WELL STATUS

Surf Csg: 8-5/8' @ 314' Prod Csg: 5-1/2" @ 5844' Csg PBTD: 5800'  
 Tbg: Size: 2 7/8" Wt: 6.5# Grd: j-55 Pkr/EOT @: 5711' BP/Sand PBTD: \_\_\_\_\_

## PERFORATION RECORD

| Zone | Perfs     | SPF/#shots | Zone    | Perfs      | SPF/#shots |
|------|-----------|------------|---------|------------|------------|
| GB2  | 4008- 26' | 4/72       | A1      | 5007- 18'  | 4/44       |
| GB4  | 4060- 67' | 4/28       | LODC    | 5113- 19'  | 4/24       |
| D1   | 4556- 65' | 4/36       | CP3 sds | 5551-5556' | 4/20       |
| C    | 4691- 99' | 4/32       | CP5 sds | 5711-5716' | 4/20       |
| C    | 4702- 12' | 4/40       |         |            |            |
| B2   | 4847- 56' | 4/36       |         |            |            |

## CHRONOLOGICAL OPERATIONS

Date Work Performed: 12-Jul-05 SITP: 250 SICP: 250

Bleed off well. Circulate well clean (well showed gas & approx. 40 bbls oil). RIH w/ tbg. To PBTD @ 5800'. LD 3 jts 2 7/8" tbg. ND BOPS. Set TAC @ 5610' w/ 14000# tension. NU wellhead. X-over for rods. RIH w/ CDI 2 1/2" x 1 1/2" x 12' x 15.5' RHAC pump, 6- 1 1/2" weight bars, 10- 3/4" guided rods, 109- 3/4" slick rods, 100- 3/4" guided rods, 1- 8', 2' x 3/4" pony subs, 1 1/2" x 22' polished rod. Seat pump. Stroke test to 800 psi. RU pumping unit. Hang off rods. Could not keep pumping unit running. RD. Mechanic fixed unit. Put well on production @ 4:00 p.m. 86" stroke length, 6 spm. Road rig from Jonah 12-14 to P.D. 8-22. FINAL REPORT.

## FLUID RECOVERY (BBLs)

Starting fluid load to be recovered: 2414 Starting oil rec to date: 90  
 Fluid lost/recovered today: 125 Oil lost/recovered today: 40  
 Ending fluid to be recovered: 2539 Cum oil recovered: 130  
 IFL: \_\_\_\_\_ FFL: \_\_\_\_\_ FTP: \_\_\_\_\_ Choke: \_\_\_\_\_ Final Fluid Rate: \_\_\_\_\_ Final oil cut: \_\_\_\_\_

## TUBING DETAIL

## ROD DETAIL

## COSTS

| TUBING DETAIL |                               | ROD DETAIL                  |  | COSTS                |         |
|---------------|-------------------------------|-----------------------------|--|----------------------|---------|
|               |                               |                             |  | NC #2                | \$3,543 |
| KB            | 12.00'                        | 1 1/2" X 22' polished rod   |  | Weatherford bop      | \$140   |
| 172           | 2 7/8 J-55 tbg (5598.50')     | 1- 2', 8' x 3/4" pony subs  |  | RNI water truck      | \$200   |
|               | 5 1/2" TAC (2.80' @ 5610.50') | 100-3/4" scraped rods       |  | NPC frac tk(7x8days) | \$2,240 |
| 1             | 2 7/8 J-55 tbg. (32.52')      | 109-3/4" plain rods         |  | NPC frac head        | \$500   |
|               | SN (1.10' @ 5645.82' KB)      | 10-3/4" scraped rods        |  | NPC swab tk(4 days)  | \$160   |
| 2             | 2 7/8 J-55 tbg (64.39')       | 6-1 1/2" weight rods        |  | NPC frac valve       | \$170   |
|               | 2 7/8 NC (.45')               | CDI 2 1/2" X 1 1/2" X 15.5' |  | CDI rod pump         | \$1,380 |
| EOT           | 5711.76' W/ 12' KB            | RHAC pump W/ SM plunger     |  | "A" grade rods       | \$9,246 |
|               |                               |                             |  | Polished rod pkg.    | \$1,300 |

Max TP: \_\_\_\_\_ Max Rate: \_\_\_\_\_ Total fluid pmpd: \_\_\_\_\_  
 Avg TP: \_\_\_\_\_ Avg Rate: \_\_\_\_\_ Total Prop pmpd: \_\_\_\_\_  
 ISIP: \_\_\_\_\_ 5 min: \_\_\_\_\_ 10 min: \_\_\_\_\_ FG: \_\_\_\_\_

Completion Supervisor: Don Dulen

NPC supervision \$300  
**DAILY COST:** \$19,179  
**TOTAL WELL COST:** \$606,305

## **ATTACHMENT H**

### **WORK PROCEDURE FOR PLUGGING AND ABANDONMENT**

1. Set CIBP @ 3958'
2. Plug #1 Set 100' plug on top of CIBP using 12 sx Class "G" cement
3. Plug #2 171' balance plug using 20 sx Class "G" cement 50' above Trona-Bird's Nest extending 50' below base of Mahogany Oil Shale
4. Plug #3 120' balance plug using 14 sx Class "G" cement 60' above Uinta/Green River and extending 60' below
5. Plug #4 Pump 42 sx Class "G" Cement down 5-1/2" casing to 365'

The approximate cost to plug and abandon this well is \$59,344.

## Jonah Federal 12-14-9-16

Spud Date: 5-28-05  
 Put on Production: 7-12-05  
 GL: 5682' KB: 5694'

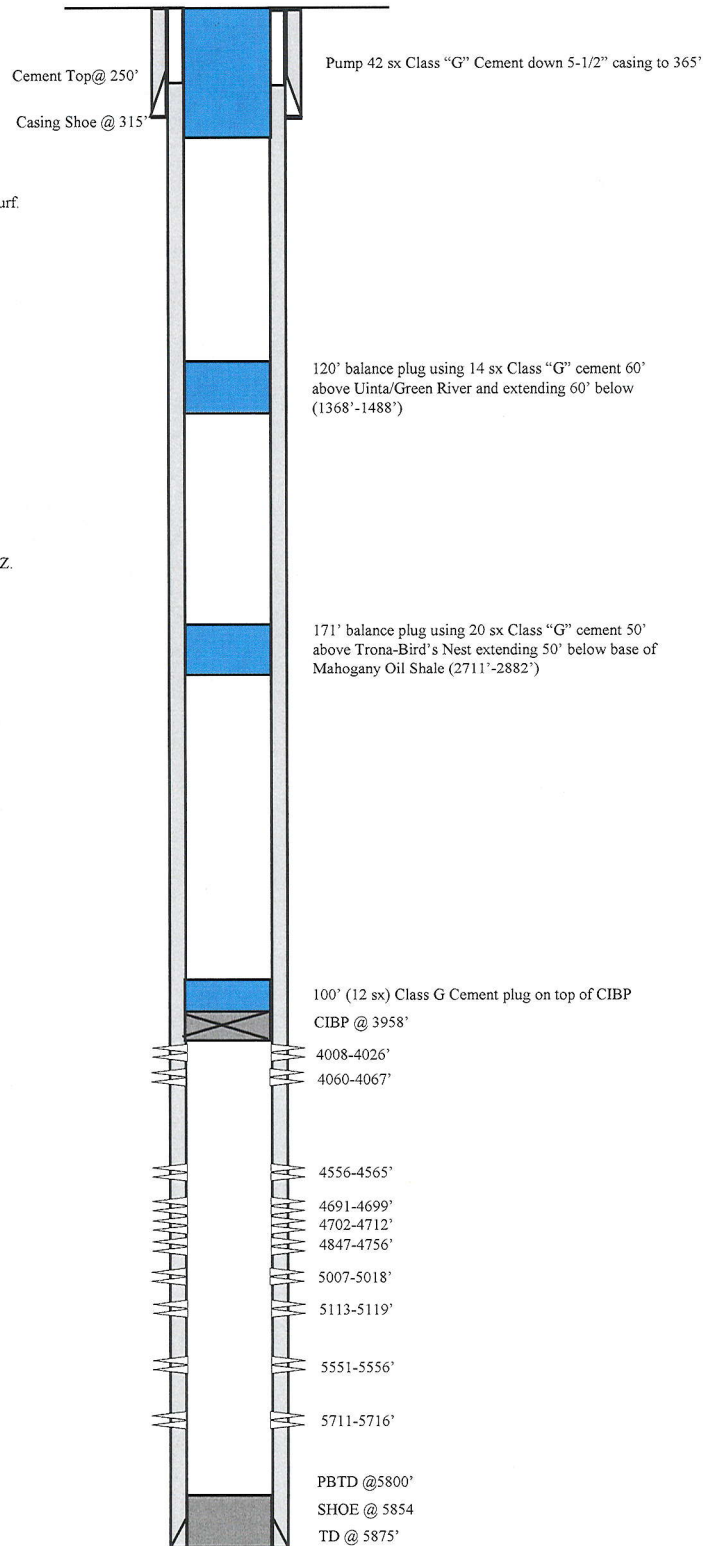
Initial Production: BOPD 118,  
 MCFD 7, BWPD 139

Proposed P & A  
Wellbore DiagramSURFACE CASING

CSG SIZE: 8-5/8"  
 GRADE: J-55  
 WEIGHT: 24#  
 LENGTH: 7 jts. (302.88')  
 DEPTH LANDED: 314.73' KB  
 HOLE SIZE: 12-1/4"  
 CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

PRODUCTION CASING

CSG SIZE: 5-1/2"  
 GRADE: J-55  
 WEIGHT: 15.5#  
 LENGTH: 142 jts. (5830.79')  
 DEPTH LANDED: 5844.04' KB  
 HOLE SIZE: 7-7/8"  
 CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50/50 POZ.  
 CEMENT TOP AT: 250'



**Jonah Federal 12-14-9-16**  
 1816' FSL & 575' FWL  
 NW/SW Section 14-T9S-R16E  
 Duchesne Co, Utah  
 API #43-013-32682; Lease #UTU-096547

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an  
abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address Route 3 Box 3630

Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1816 FSL 575 FWL

NWSW Section 14 T9S R16E

5. Lease Serial No.

USA UTU-096547

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

JONAH FEDERAL 12-14-9-16

9. API Well No.

4301332682

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                   | TYPE OF ACTION  |   |  |   |
|--|---|---|--|---|
| <input checked="" type="checkbox"/> Notice of Intent | <input type="checkbox"/> Acidize                        | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off |
| <input type="checkbox"/> Subsequent Report           | <input type="checkbox"/> Alter Casing                   | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity |
| <input type="checkbox"/> Final Abandonment           | <input type="checkbox"/> Casing Repair                  | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input type="checkbox"/> Other _____    |
|  | <input type="checkbox"/> Change Plans                   | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | _____                                   |
|  | <input checked="" type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            | _____                                   |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Newfield Production proposes to convert the above mentioned well from a producing oil well to an injection well.

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Eric Sundberg

Signature

Title

Regulatory Lead

Date

06/17/2010

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Date

Office

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-366

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 12, 14, AND 15, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

THE STATE OF UTAH TO ALL PERSONS INTERESTED IN THE ABOVE ENTITLED MATTER.

Notice is hereby given that the Division of Oil, Gas and Mining (the "Division") is commencing an informal adjudicative proceeding to consider the application of Newfield Production Company for administrative approval of the following wells located in Duchesne County, Utah, for conversion to Class II injection wells:

Greater Monument Butte Unit:

Monument Federal 11-9-9-16 well located in NW/4 NW/4, Section 9, Township 9 South, Range 16 East  
C & O Govt 2 well located in NW/4 SE/4, Section 12, Township 9 South, Range 16 East  
Jonah Federal 9-12-9-16 well located in NE/4 SE/4, Section 12, Township 9 South, Range 16 East  
Jonah Federal 16-12-9-16 well located in SE/4 SE/4, Section 12, Township 9 South, Range 16 East  
Jonah 6-14-9-16 well located in SE/4 NW/4, Section 14, Township 9 South, Range 16 East  
Jonah Federal 12-14-9-16 well located in NW/4 SW/4, Section 14, Township 9 South, Range 16 East  
Jonah Federal 14-14-9-16 well located in SE/4 SW/4, Section 14, Township 9 South, Range 16 East  
Walton Federal 2 well located in NW/4 NE/4, Section 14, Township 9 South, Range 16 East  
Castle Peak Federal 42-15 well located in SE/4 NE/4, Section 15, Township 9 South, Range 16 East


The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8<sup>th</sup> day of July, 2010.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING



Brad Hill  
Permitting Manager

**Newfield Production Company**

**MONUMENT FEDERAL 11-9-9-16, C & O GOVT 2,  
JONAH FEDERAL 9-12-9-16, JONAH FEDERAL 16-12-9-16,  
JONAH 6-14-9-16, JONAH FEDERAL 12-14-9-16,  
JONAH FEDERAL 14-14-9-16, WALTON FEDERAL 2,  
CASTLE PEAK FEDERAL 42-15.**

**Cause No. UIC-366**

Publication Notices were sent to the following:

Newfield Production Company  
1001 17th Street, Suite 2000  
Denver, CO 80202

Duchesne County Planning  
P O Box 317  
Duchesne, UT 84021-0317

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066  
via e-mail [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

Bruce Suchomel  
US EPA Region 8  
MS 8P-W-GW  
1595 Wynkoop Street  
Denver, CO 80202-1129

Salt Lake Tribune  
P O Box 45838  
Salt Lake City, UT 84145  
via e-mail [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Newfield Production Company  
Rt 3 Box 3630  
Myton, UT 84052

Vernal Office  
Bureau of Land Management  
170 South 500 East  
Vernal, UT 84078

  
\_\_\_\_\_



**Jean Sweet - RE: Notice of Agency Action - Newfield Production Company Cause No. UIC-366**

---

**From:** "NAC Legal" <naclegal@mediaoneutah.com>  
**To:** "Jean Sweet" <jsweet@utah.gov>  
**Date:** 7/8/2010 3:57 PM  
**Subject:** RE: Notice of Agency Action - Newfield Production Company Cause No. UIC-366

---

Ad #596935 is scheduled to run July 13th in Salt Lake Tribune, Deseret News and on the website utahlegals.com .

Total charge is \$233.48. Please check the ad in the papers.

Thank you,

Lynn Valdez  
MediaOne of Utah,  
a Newspaper Agency Company  
4770 South 5600 West  
West Valley City, Utah 84118  
Ph.: 801-204-6245  
Email: [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

---

**From:** Jean Sweet [mailto:[jsweet@utah.gov](mailto:jsweet@utah.gov)]  
**Sent:** Thursday, July 08, 2010 3:11 PM  
**To:** [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)  
**Subject:** Notice of Agency Action – Newfield Production Company Cause No. UIC-366

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet, Executive Secretary  
Utah Div. of Oil, Gas & Mining  
1594 West Temple, Suite 1210  
Salt Lake City, UT  
801-538-5329  
[jsweet@utah.gov](mailto:jsweet@utah.gov)



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

July 8, 2010

VIA E-MAIL [naclegal@mediaoneutah.com](mailto:naclegal@mediaoneutah.com)

Salt Lake Tribune  
P. O. Box 45838  
Salt Lake City, UT 84145

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-366

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing for **account #9001402352** to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

Jean Sweet  
Executive Secretary

Enclosure



**NOTICE OF AGENCY ACTION CAUSE NO. UIC-366**

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE  
APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 12, 14, AND 15, TOWNSHIP 9 SOUTH, RANGE 16  
EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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C & O Govt 2 well located in NW/4 SE/4, Section 12, Township 9 South, Range 16 East

Jonah Federal 9-12-9-16 well located in NE/4 SE/4, Section 12, Township 9 South, Range 16 East

Jonah Federal 16-12-9-16 well located in SE/4 SE/4, Section 12, Township 9 South, Range 16 East

Jonah 6-14-9-16 well located in SE/4 NW/4, Section 14, Township 9 South, Range 16 East

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Jonah Federal 14-14-9-16 well located in SE/4 SW/4, Section 14, Township 9 South, Range 16 East

Walton Federal 2 well located in NW/4 NE/4, Section 14, Township 9 South, Range 16 East

Castle Peak Federal 42-15 well located in SE/4 NE/4, Section 15, Township 9 South, Range 16 East

The proceeding will be conducted in accordance with Utah Admin. R649-10, Administrative Procedures.

Selected zones in the Green River Formation will be used for water injection. The maximum requested injection pressures and rates will be determined based on fracture gradient information submitted by Newfield Production Company.

Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, at P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of July, 2010.

STATE OF UTAH

DIVISION OF OIL, GAS & MINING

/s/

Brad Hill

Permitting Manager

Published in the Uintah Basin Standard July 13, 2010.



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

July 8, 2010

Via e-mail: [ubs@ubstandard.com](mailto:ubs@ubstandard.com)

Uintah Basin Standard  
268 South 200 East  
Roosevelt, UT 84066

Subject: Notice of Agency Action – Newfield Production Company Cause No. UIC-366

To whom it may concern:

Enclosed is a copy of the referenced Notice of Agency Action. Please publish the Notice, once only, as soon as possible. Please notify me via e-mail of the date it will be published. My e-mail address is: [jsweet@utah.gov](mailto:jsweet@utah.gov).

Please send proof of publication and billing to:

Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

Sincerely,

  
Jean Sweet  
Executive Secretary

Enclosure

4770 S. 5600 W.  
P.O. BOX 704005  
WEST VALLEY CITY, UTAH 84170  
FED.TAX I.D.# 87-0217663

The Salt Lake Tribune

WWW.SLTRIB.COM

MEDIA One  
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Deseret News

WWW.DESERETNEWS.COM

PROOF OF PUBLICATION

CUSTOMER'S COPY

| CUSTOMER NAME AND ADDRESS  | ACCOUNT NUMBER | DATE      |
|--|----------------|-----------|
| DIV OF OIL-GAS & MINING,<br><br>1594 W NORTH TEMP #1210<br>P.O. BOX 145801<br>SALT LAKE CITY, UT 84114 | 9001402352     | 7/14/2010 |

|  |  |                           |  |
|--|--|---------------------------|--|
| ACCOUNT NAME                             |  |                           |  |
| DIV OF OIL-GAS & MINING,                 |  |                           |  |
| TELEPHONE                                |  | ADORDER# / INVOICE NUMBER |  |
| 8015385340                               |  | 0000596935 /              |  |
| SCHEDULE                                 |  |                           |  |
| Start 07/13/2010                         |  | End 07/13/2010            |  |
| CUST. REF. NO.                           |  |                           |  |
| Cause # UIC-366                          |  |                           |  |
| CAPTION                                  |  |                           |  |
| BEFORE THE DIVISION OF OIL, GAS AND MINI |  |                           |  |
| SIZE                                     |  |                           |  |
| 68 Lines                                 |  | 2.00 COLUMN               |  |
| TIMES                                    |  | RATE                      |  |
| 4  |  |                           |  |
| MISC. CHARGES                            |  | AD CHARGES                |  |
|  |  |                           |  |
|  |  | TOTAL COST                |  |
|  |  | 233.48                    |  |

AFFIDAVIT OF PUBLICATION

AS NEWSPAPER AGENCY CORPORATION LEGAL BOOKER, I CERTIFY THAT THE ATTACHED ADVERTISEMENT OF **BEFORE THE DIVISION OF OIL, GAS AND MINI** FOR **DIV OF OIL-GAS & MINING**, WAS PUBLISHED BY THE NEWSPAPER AGENCY CORPORATION, AGENT FOR THE SALT LAKE TRIBUNE AND DESERET NEWS, DAILY NEWSPAPERS PRINTED IN THE ENGLISH LANGUAGE WITH GENERAL CIRCULATION IN UTAH, AND PUBLISHED IN SALT LAKE CITY, SALT LAKE COUNTY IN THE STATE OF UTAH. NOTICE IS ALSO POSTED ON UTAHLEGALS.COM ON THE SAME DAY AS THE FIRST NEWSPAPER PUBLICATION DATE AND REMAINS ON UTAHLEGALS.COM INDEFINATELY.

PUBLISHED ON Start 07/13/2010 End 07/13/2010

SIGNATURE

DATE

7/14/2010

THIS IS NOT A STATEMENT BUT A "PROOF OF PUBLICATION"  
PLEASE PAY FROM BILLING STATEMENT

BEFORE THE DIVISION OF OIL, GAS AND MINING  
DEPARTMENT OF NATURAL RESOURCES  
STATE OF UTAH  
NOTICE OF AGENCY ACTION  
CAUSE NO. UIC-366

IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 12, 14, AND 15, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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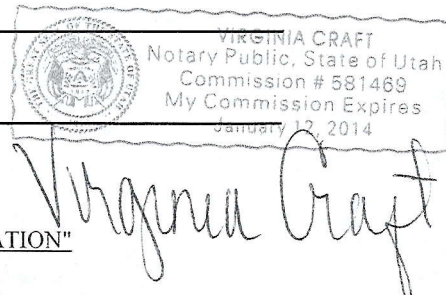
Any person desiring to object to the application or otherwise intervene in the proceeding, must file a written protest or notice of intervention with the Division within fifteen days following publication of this notice. The Division's Presiding Officer for the proceeding is Brad Hill, Permitting Manager, a P.O. Box 145801, Salt Lake City, UT 84114-5801, phone number (801) 538-5340. If such a protest or notice of intervention is received, a hearing will be scheduled in accordance with the aforementioned administrative procedural rules. Protestants and/or interveners should be prepared to demonstrate at the hearing how this matter affects their interests.

Dated this 8th day of July, 2010.

STATE OF UTAH  
DIVISION OF OIL, GAS & MINING  
/s/ Brad Hill  
Brad Hill  
Permitting Manager

596935

UPAXLP

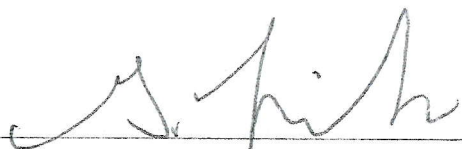




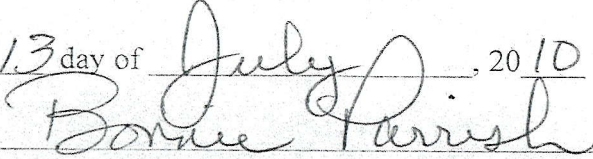
# AFFIDAVIT OF PUBLICATION

County of Duchesne,  
STATE OF UTAH

I, Geoff Liesik on oath, say that I am the EDITOR of the Uintah Basin Standard, a weekly newspaper of general circulation, published at Roosevelt, State and County aforesaid, and that a certain notice, a true copy of which is hereto attached, was published in the full issue such newspaper for 1 consecutive issues, and that the first publication was on the 13 day of July, 20 10, and that the last publication of such notice was in the issue of such newspaper dated the 13 day of July, 20 10, and that said notice was published on Utahlegals.com on the same day as the first newspaper publication and the notice remained on Utahlegals.com until the end of the scheduled run.

  
Editor

Subscribed and sworn to before me this

13 day of July, 20 10  
  
Notary Public



## NOTICE OF AGENCY ACTION CAUSE NO. UIC-366

BEFORE THE DIVISION OF OIL, GAS AND MINING DEPARTMENT OF NATURAL RESOURCES

STATE OF UTAH  
IN THE MATTER OF THE APPLICATION OF NEWFIELD PRODUCTION COMPANY FOR ADMINISTRATIVE APPROVAL OF CERTAIN WELLS LOCATED IN SECTIONS 9, 12, 14, AND 15, TOWNSHIP 9 SOUTH, RANGE 16 EAST, DUCHESNE COUNTY, UTAH, AS CLASS II INJECTION WELLS.

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SE/4, Section 12, Township 9 South, Range 16 East

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Dated this 8th day of July, 2010.

STATE OF UTAH  
DIVISION OF OIL,  
GAS & MINING

/s/

Brad Hill

Permitting Manager

Published in the Uintah  
Basin Standard July 13,  
2010.





Send Payments to:  
 268 S 200 E  
 Roosevelt, Utah 84066  
 Phone: 435-722-5131  
 Fax: 435-722-4140  
 www.ubstandard.com  
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Rose Nolton  
 DIVISION OF OIL GAS & MINING  
 1594 W. N. TEMPLE STE 121  
 PO BOX 145801  
 SALT LAKE CITY, UT 84114-5801

RECEIVED  
 JUL 15 2010  
 DIV. OF OIL, GAS & MINING

|                |                |
|----------------|----------------|
| Invoice Number | Invoice Date   |
| 2681           | 7/13/2010      |
| Advertiser No. | Invoice Amount |
| 2080           | \$119.20       |
|                | Due Date       |
|                | 8/12/2010      |

12 → 08  
 NEW YEAR  
 COPY

1 1/2% fee will be charged to all past due balances. Amount Enclosed

Please detach top portion and return with your payment

### INVOICE

Uintah Basin Standard

DIVISION OF OIL  
 GAS & MINING

Invoice No. 2681

7/13/2010

| Date      | Order | Publications | Description  | Ad Size               | Sales Tax | Amount   |
|-----------|-------|--------------|--|-----------------------|-----------|----------|
| 7/13/2010 | 1510  | 1            | Notice of Agency Action Cause No.<br>UIC-366<br>Ran July 13, 2010<br>Uintah Basin Standard |                       | \$0.00    | \$119.20 |
|           |       |              |  | Total Transactions: 1 | \$0.00    | \$119.20 |

### SUMMARY

Advertiser No. 2080

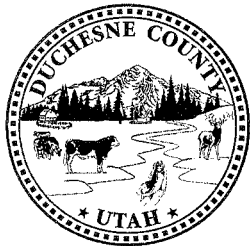
Invoice No. 2681

1 1/2% fee will be charged to all past due balances.

Thank You for your business!

Thank you for advertising with us, we appreciate your business!

2250/REB/GG UIC AOM/GF 10/6131



*Duchesne County Planning, Zoning  
& Community Development  
734 North Center Street  
P.O. Box 317  
Duchesne, Utah 84021  
(435) 738-1152  
Fax (435) 738-5522*

RECEIVED

JUL 19 2010

DIV. OF OIL, GAS & MINING

July 15, 2010

Mr. Brad Hill, Permitting Manager  
Division of Oil, Gas and Mining  
PO Box 145801  
Salt Lake City, UT 84114-5801

RE: Newfield Production Company Injection Wells (Cause No UIC-366)

Dear Mr. Hill:

We are in receipt of your notice regarding Newfield Production Company's request to convert nine wells, located in Sections 9, 12, 14 and 15, Township 9 South, Range 16 East, Duchesne County, to Class II injection wells.

Duchesne County is supportive of this request and recommends approval under conditions that your agency deems appropriate.

Thank you for the opportunity to comment.

Sincerely,

A handwritten signature in black ink that reads "Mike Hyde".

Mike Hyde, AICP  
Community Development Administrator

pc: Mike Guinn, Newfield Production Company, Rt. 3, Box 3630, Myton, UT 84052



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

August 10, 2010

Newfield Production Company  
1001 Seventeenth Street, Suite 2000  
Denver, CO 80202

Subject: Greater Monument Butte Unit Well: Jonah Federal 12-14-9-16, Section 14, Township 9 South, Range 16 East, SLBM, Duchesne County, Utah, API Well # 43-013-32682

Gentlemen:

Pursuant to Utah Admin. Code R649-5-3-3, the Division of Oil, Gas and Mining (the "Division") issues its administrative approval for conversion of the referenced well to a Class II injection well. Accordingly, the following stipulations shall apply for full compliance with this approval:

1. Compliance with all applicable requirements for the operation, maintenance and reporting for Underground Injection Control ("UIC") Class II injection wells pursuant to Utah Admin. Code R649-1 et seq.
2. Conformance with all conditions and requirements of the complete application submitted by Newfield Production Company.
3. A casing/tubing pressure test shall be conducted prior to commencing injection.
4. Pressure shall be monitored between the surface casing and the production casing on a regular basis. Any pressure changes observed shall be reported to the Division immediately.

A final approval to commence injection will be issued upon satisfactory completion of the listed stipulations. If you have any questions regarding this approval or the necessary requirements, please contact Mark Reinbold at 801-538-5333 or Brad Hill at 801-538-5315.

Sincerely,

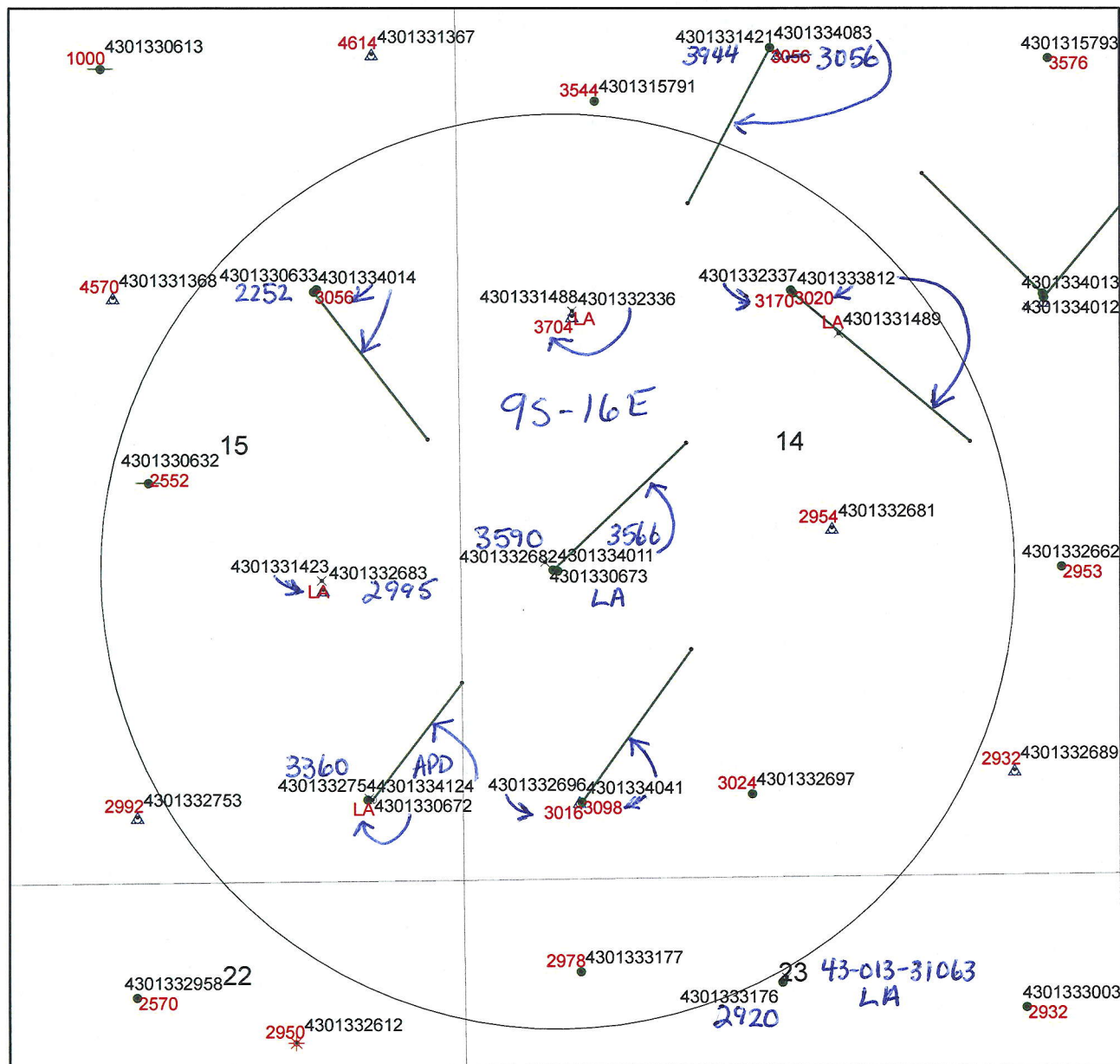
Don Staley  
Acting Associate Director

DTS/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Duchesne County  
Newfield Production Company, Myton  
Well File

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# JONAH FEDERAL 12-14-9-16 API #43-013-32682 UIC-366.5

## Legend

|   |                                     |
|---|-------------------------------------|
| Buffer_of_SGID93_ENERGY_DNROI GasWells_11 | PRODUCING OIL                       |
| Wells-CbitopsMaster8_10_10                | SHUT-IN GAS                         |
| GAS INJECTION                             | SHUT-IN OIL                         |
| TW  | TEMP. ABANDONED                     |
| TA  | TEST WELL                           |
| OPS                                       | WATER INJECTION                     |
| GS  | WATER SUPPLY                        |
| APD                                       | WATER DISPOSAL                      |
| PA  | DRILLING                            |
| LA  | RETURNED GAS                        |
| GAS STORAGE                               | RETURNED OIL                        |
| LOCATION ABANDONED                        | GAS INJECTION SI                    |
| NEW LOCATION                              | WATER DISP. SUSP.                   |
| PLUGGED & ABANDONED                       | WATER INJ. SUSP.                    |
| PRODUCING GAS                             | county-lines                        |
|   | Sections                            |
|   | SGID93.ENERGY.DNROI GasWells_HDPath |

0 0.32 Miles

1870calc = approx cement top calculated from well completion report



**DIVISION OF OIL, GAS AND MINING  
UNDERGROUND INJECTION CONTROL PROGRAM  
PERMIT  
STATEMENT OF BASIS**

**Applicant:** Newfield Production Company      **Well:** Jonah Federal 12-14-9-16

**Location:** 14/9S/16E      **API:** 43-013-32682

**Ownership Issues:** The proposed well is located on BLM land. The well is located in the Greater Monument Butte Unit. Lands in the one-half mile radius of the well are administered by the BLM. The Federal Government is the mineral owner within the area of review (AOR). Newfield and other various individuals hold the leases in the unit. Newfield has provided a list of all surface, mineral and leaseholders in the half-mile radius. Newfield is the operator of the Greater Monument Butte Unit. Newfield has submitted an affidavit stating that all owners and interest owners have been notified of their intent.

**Well Integrity:** The proposed well has surface casing set at 315 feet and has a cement top at the surface. A 5½ inch production casing is set at 5,844 feet. A cement bond log demonstrates adequate bond in this well up to 3,590 feet. A 2 7/8 inch tubing with a packer will be set at 3,958 feet. Higher perforations will be opened at a later date. A mechanical integrity test will be run on the well prior to injection. On the basis of surface locations, there are 10 producing wells, 1 shut-in well, and 4 injection wells in AOR. In addition, there is 1 directionally drilled producing well with a surface location outside the AOR and a bottom hole location inside the AOR. All of the wells have evidence of adequate casing and cement.

**Ground Water Protection:** As interpreted from Technical Publication No. 92, the base of moderately saline water is at a depth of approximately 2500 feet. Injection shall be limited to the interval between 3,850 feet and 5,800 feet in the Green River Formation. Information submitted by Newfield indicates that the fracture gradient for the 12-14-9-16 well is 0.84 psi/ft., which was the lowest reported fracture gradient for the injection zone. The resulting minimum fracture pressure for the proposed injection interval is 1,624 psig. The requested maximum pressure is 1,624 psig. The anticipated average injection pressure is 1100 psig. Injection at this pressure should not initiate any new fractures or propagate existing fractures in the adjacent confining intervals. Any groundwater present should be adequately protected.

**Jonah 12-14-9-16**

**page 2**

**Oil/Gas& Other Mineral Resources Protection:** The Board of Oil, Gas & Mining approved the Greater Monument Butte Unit on December 1, 2009. Correlative rights issues were addressed at this time. Previous reviews in this area indicate that other mineral resources in the area have been protected or are not at issue.

**Bonding:** Bonded with the BLM

**Actions Taken and Further Approvals Needed:** A notice of agency action has been sent to the Salt Lake Tribune and the Uinta Basin Standard. A casing/tubing pressure test will be required prior to injection. It is recommended that approval of this application be granted.

Note: Applicable technical publications concerning water resources in the general vicinity of this project have been reviewed and taken into consideration during the permit review process.

Reviewer(s): Mark Reinbold Date 8/10/10



February 7, 2011

Mr. Brad Hill  
State of Utah, DOGM  
1594 West North Temple-Suite 1310  
P.O. Box 145801  
Salt Lake City, Utah 84114-5801

RE: Injection Conversion  
Jonah Federal 12-14-9-16  
API # 43-013-32682

Dear Mr. Brad Hill:

The subject well was converted to an injector. Please find enclosed the sundry, a copy of the tabular, and chart. If you have any questions please call me at 435-646-4874.

Sincerely,

A handwritten signature in cursive script, appearing to read "Lucy Chavez-Naupoto".

Lucy Chavez-Naupoto  
Administrative Assistant

RECEIVED  
FEB 09 2011

DIV. OF OIL, GAS & MINING



**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

|  |  |   |
|--|--|---|
| 1. TYPE OF WELL:<br>OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER |  | 5. LEASE DESIGNATION AND SERIAL NUMBER:<br>USA UTU-096547 |
| 2. NAME OF OPERATOR:<br>NEWFIELD PRODUCTION COMPANY  |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME:                     |
| 3. ADDRESS OF OPERATOR:<br>Route 3 Box 3630 CITY Myton STATE UT ZIP 84052                                |  | 7. UNIT or CA AGREEMENT NAME:<br>GMBU                     |
| 4. LOCATION OF WELL:<br>FOOTAGES AT SURFACE: 1816 FSL 575 FWL  |  | 8. WELL NAME and NUMBER:<br>JONAH FEDERAL 12-14-9-16      |
| OTR/OTR. SECTION. TOWNSHIP. RANGE. MERIDIAN: NWSW, 14, T9S, R16E   |  | 9. API NUMBER:<br>4301332682                              |
|  |  | 10. FIELD AND POOL, OR WILDCAT:<br>GREATER MB UNIT        |
|  |  | COUNTY: DUCHESNE  |
|  |  | STATE: UT   |

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION   | TYPE OF ACTION  |   |  |
|--|---|---|--|
| <input type="checkbox"/> NOTICE OF INTENT<br>(Submit in Duplicate)<br><br>Approximate date work will<br>_____                      | <input type="checkbox"/> ACIDIZE                        | <input type="checkbox"/> DEEPEN                           | <input type="checkbox"/> REPERFORATE CURRENT FORMATION |
|  | <input type="checkbox"/> ALTER CASING                   | <input type="checkbox"/> FRACTURE TREAT                   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL      |
|  | <input type="checkbox"/> CASING REPAIR                  | <input type="checkbox"/> NEW CONSTRUCTION                 | <input type="checkbox"/> TEMPORARITLY ABANDON          |
|  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       | <input type="checkbox"/> OPERATOR CHANGE                  | <input type="checkbox"/> TUBING REPAIR                 |
|  | <input type="checkbox"/> CHANGE TUBING                  | <input type="checkbox"/> PLUG AND ABANDON                 | <input type="checkbox"/> VENT OR FLAIR                 |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>(Submit Original Form Only)<br><br>Date of Work Completion:<br>01/31/2011 | <input type="checkbox"/> CHANGE WELL NAME               | <input type="checkbox"/> PLUG BACK                        | <input type="checkbox"/> WATER DISPOSAL                |
|  | <input checked="" type="checkbox"/> CHANGE WELL STATUS  | <input type="checkbox"/> PRODUCTION (START/STOP)          | <input type="checkbox"/> WATER SHUT-OFF                |
|  | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS | <input type="checkbox"/> RECLAMATION OF WELL SITE         | <input type="checkbox"/> OTHER: -                      |
|  | <input checked="" type="checkbox"/> CONVERT WELL TYPE   | <input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION |  |

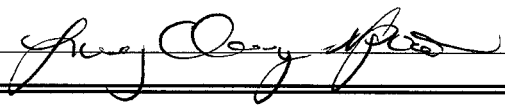
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

The subject well has been converted from a producing oil well to an injection well on 01/26/2011.

On 01/27/2011 Dennis Ingram with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well.

Permission was given at that time to perform the test on 01/31/2011. On 01/31/2011 the casing was pressured up to 1320 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test.

API# 43-013-32682

|   |                                |
|---|--------------------------------|
| NAME (PLEASE PRINT) Lucy Chavez-Naupoto   | TITLE Administrative Assistant |
| SIGNATURE  | DATE 02/07/2011                |

(This space for State use only)

**RECEIVED**  
**FEB 09 2011**  
DIV. OF OIL, GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**  
**Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.**

FORM APPROVED  
OMB No. 1004-0137  
Expires: July 31, 2010

**SUBMIT IN TRIPLICATE - Other Instructions on page 2**

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

NEWFIELD PRODUCTION COMPANY

3a. Address

Route 3 Box 3630  
Myton, UT 84052

3b. Phone (include area code)

435.646.3721

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

1816 FSL 575 FWL

NWSW Section 14 T9S R16E

5. Lease Serial No.

USA UTU-096547

6. If Indian, Allottee or Tribe Name.

7. If Unit or CA/Agreement, Name and/or

GMBU

8. Well Name and No.

JONAH FEDERAL 12-14-9-16

9. API Well No.

4301332682

10. Field and Pool, or Exploratory Area

GREATER MB UNIT

11. County or Parish, State

DUCHESNE, UT

**12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, OR OTHER DATA**

| TYPE OF SUBMISSION                                    | TYPE OF ACTION  |   |  |   |
|---|---|---|--|---|
| <input type="checkbox"/> Notice of Intent             | <input type="checkbox"/> Acidize                        | <input type="checkbox"/> Deepen           | <input type="checkbox"/> Production (Start/Resume) | <input type="checkbox"/> Water Shut-Off         |
| <input checked="" type="checkbox"/> Subsequent Report | <input type="checkbox"/> Alter Casing                   | <input type="checkbox"/> Fracture Treat   | <input type="checkbox"/> Reclamation               | <input type="checkbox"/> Well Integrity         |
| <input type="checkbox"/> Final Abandonment            | <input type="checkbox"/> Casing Repair                  | <input type="checkbox"/> New Construction | <input type="checkbox"/> Recomplete                | <input checked="" type="checkbox"/> Other _____ |
|   | <input type="checkbox"/> Change Plans                   | <input type="checkbox"/> Plug & Abandon   | <input type="checkbox"/> Temporarily Abandon       | Change Status _____                             |
|   | <input checked="" type="checkbox"/> Convert to Injector | <input type="checkbox"/> Plug Back        | <input type="checkbox"/> Water Disposal            | _____   |

13. Describe Proposed or Completed Operation: (Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

The subject well has been converted from a producing oil well to an injection well on 01/26/2011.

On 01/27/2011 Dennis Ingram with the State of Utah DOGM was contacted concerning the initial MIT on the above listed well. Permission was given at that time to perform the test on 01/31/2011. On 01/31/2011 the casing was pressured up to 1320 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 400 psig during the test. There was not a State representative available to witness the test.

API# 43-013-32682

I hereby certify that the foregoing is true and correct (Printed/ Typed)

Lucy Chavez-Naupoto

Signature

Title

Administrative Assistant

Date

02/07/2011

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title

Office

Date

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious and fraudulent statements or representations as to any matter within its jurisdiction

(Instructions on page 2)

**RECEIVED**

**FEB 09 2011**

DIV. OF OIL, GAS & MINING

# Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company

Rt. 3 Box 3630

Myton, UT 84052

435-646-3721

Witness: \_\_\_\_\_ Date 1/31/11 Time 1030 am pm

Test Conducted by: Scott Sims / NEWFIELD

Others Present: \_\_\_\_\_

Well: JONAH FEDERAL 12-14-9-16

Field: MONUMENT BUTTE

Well Location: NW/4, T9S, R16E

API No: 43-013-32682

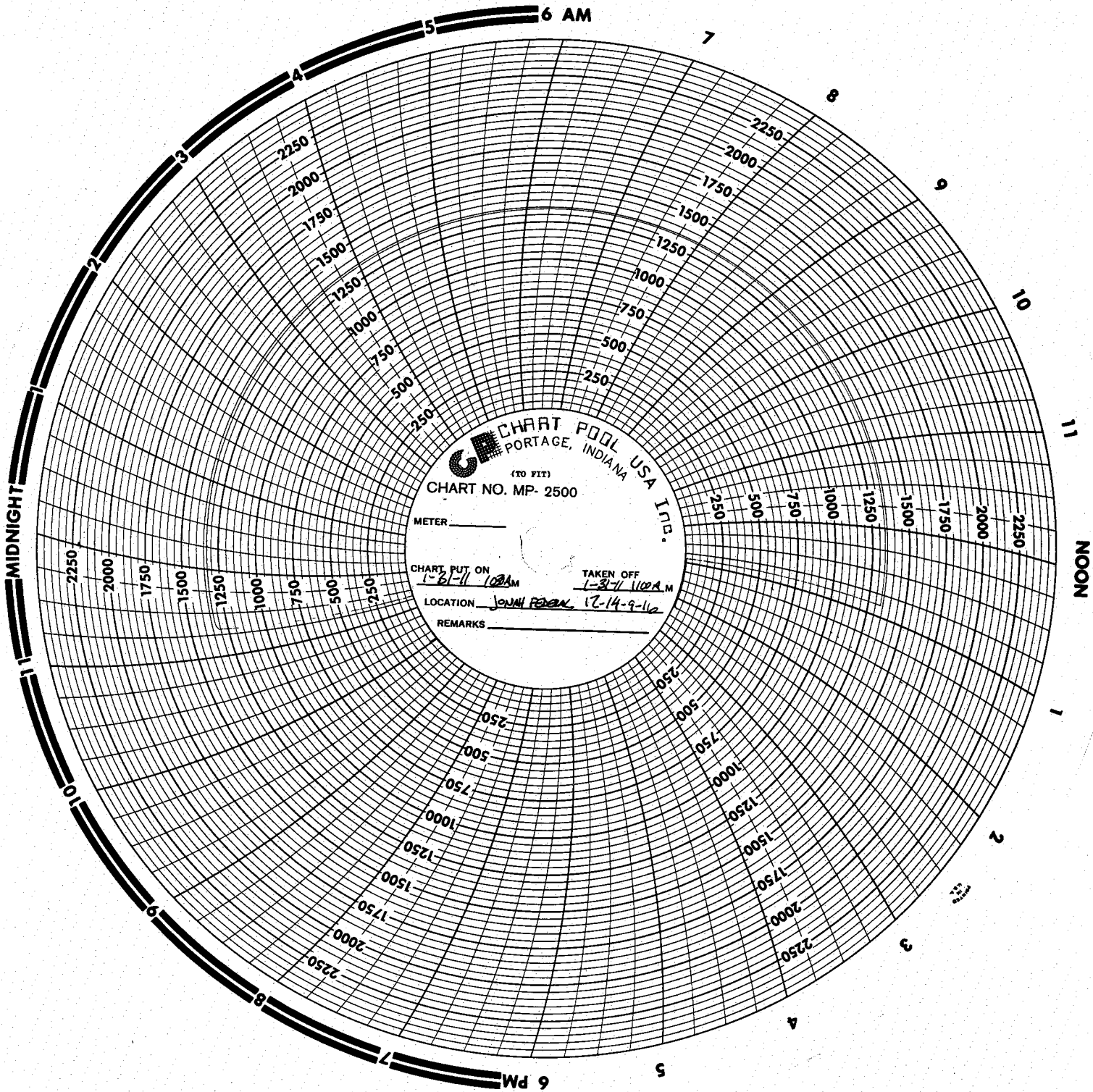
| <u>Time</u> | <u>Casing Pressure</u> |      |
|-------------|------------------------|------|
| 0 min       | <u>1320</u>            | psig |
| 5           | <u>1320</u>            | psig |
| 10          | <u>1320</u>            | psig |
| 15          | <u>1320</u>            | psig |
| 20          | <u>1320</u>            | psig |
| 25          | <u>1320</u>            | psig |
| 30 min      | <u>1320</u>            | psig |
| 35          | _____                  | psig |
| 40          | _____                  | psig |
| 45          | _____                  | psig |
| 50          | _____                  | psig |
| 55          | _____                  | psig |
| 60 min      | _____                  | psig |

Tubing pressure: 400 psig

Result: Pass Fail

Signature of Witness: \_\_\_\_\_

Signature of Person Conducting Test: Scott Sims



**Daily Activity Report****Format For Sundry****JONAH 12-14-9-16****11/1/2010 To 3/28/2011****1/21/2011 Day: 1****Conversion**

Nabors #1608 on 1/21/2011 - LD rod string. TOOH w/ tbg breaking & doping collars - MIRUSU NWS #1608. BMW hot oiler had pumped 60 bw down csg @ 250°. RD pumping unit. Unseat rod pump. Flush rods & tbg w/ 40 bw @ 250°. Soft seat pump & test tbg to 3000 psi. No test. Blew hole in tbg @ 2400 psi. Retrieve rods. TOOH laying down rods @ follows. 1 - 2', 6' x 3/4" pony rods, 100 - 3/4" guided rods (4 per), 109 - 3/4" plain rods, 10 - 3/4" guided rods (4 per), & 6 - 1 1/2" wt bars. Get out of hole w/ rods. X-over to tbg equipment. ND wellhead. Go to release TAC. Find TAC not set. NU BOP. RU workfloor. TIH w/ tbg to tag fill @ 5740'. 3' new fill. TOOH w/ tbg detail (breaking collars & applying Liquid O-Ring to threads & tallying). Get out of hole w/ 60 jts tbg. SDFN to attend Newfield rig safety meeting. EWTR 100 BBLs

**Daily Cost: \$0****Cumulative Cost: \$5,284**

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**1/24/2011 Day: 3****Conversion**

Nabors #1608 on 1/24/2011 - TOH W/ tbg to find slow leak. On TIH, Have a solid test on btm 14 jts tbg. - RU HO trk to tbg & flush W/ 30 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 53 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 122 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Can't get a solid pressure test. Re-pressure tbg to 3000 psi & SION. - Thaw tbg W/ HO trk. SITP @ 1000 psi. Bleed off & re-pressure to 3000 psi. Unable to sustain solid pressure. Start TOH W/ tbg testing in several increments. Can't get a test with all tbg out of hole. LD packer. Test SN & btm 2 jts W/ success. PU packer & TIH W/ 14 jts tbg. Have a solid test here. TIH W/ 10 jts & SIFN. - RU HO trk to tbg & flush W/ 30 BW @ 250°F. Con't TOH & talley production tbg. Break each connection, clean & inspect pins and apply Liquid O-ring to pins. LD btm 53 jts & BHA. MU & TIH W/ new Weatherford 5 1/2" Arrowset 1-X packer (W/ wicker slips & W.L. re-entry guide), new 2 7/8 SN and 122 jts 2 7/8 8rd 6.5# J-55 tbg. Re-torque each connection on TIH. RU HO trk & pump 10 bbls pad. Drop standing valve & pump to SN. Pressure test tbg to 3000 psi. Bled air & re-bumped pressure several times. Can't get a solid pressure test. Re-pressure tbg to 3000 psi & SION. - Thaw tbg W/ HO trk. SITP @ 1000 psi. Bleed off & re-pressure to 3000 psi. Unable to sustain solid pressure. Start TOH W/ tbg testing in several increments. Can't get a test with all tbg out of hole. LD packer. Test SN & btm 2 jts W/ success. PU packer & TIH W/ 14 jts tbg. Have a solid test here. TIH W/ 10 jts & SIFN.

**Daily Cost: \$0****Cumulative Cost: \$42,720**

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**1/25/2011 Day: 4****Conversion**

Nabors #1608 on 1/25/2011 - Isolate tbg leak, changing collars as needed. 2600' of tbg tested so far. - Thaw tbg W/ HO trk. SITP @ 1500 psi. Bleed air off tbg. RU HO trk & re-fill tbg. Pressure test to 3000 psi. Does not hold solid. Resume testing tbg, changing cplgs as needed (26 so far). At end of day have 2600' of tbg in hole W/ pretty positive test. Leave 3000 psi on tbg overnight.

**Daily Cost:** \$0  
**Cumulative Cost:** \$49,372

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**1/26/2011 Day: 5****Conversion**

Nabors #1608 on 1/26/2011 - Changed out 20 more tbg collars. Have successful test of 102 jts of injection string. - Thaw tbg W/ HO trk. SITP @ 1900 psi. Bleed off air, re-fill & test to 3000 psi. Work with tbg string to get a solid test. Changed out 20 add'l questionable tbg collars. At end of day had Majority of tbg testing solidly at 3000 psi!

**Daily Cost:** \$0  
**Cumulative Cost:** \$55,948

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**1/27/2011 Day: 6****Conversion**

Nabors #1608 on 1/27/2011 - Confirmed tbg test. Set & test packer. RDMOSU. - Run Vaughn Energy Services gyro survey. Perform MIT. - Thaw tbg W/ HO trk. SITP @ 2700 psi. Bleed air off & re-pressure tbg to 3000 psi. Holds solid for 30 minutes. RIH W/ last 20 jts tbg (already W/ new cplgs). Pressure test entire string to 3000 psi. Held solid for 30 minutes. Retrieve standing valve W/ overshot on sandline. ND BOP & land tbg on flange. Mix 15 gals Multi-Chem C-6031 & 5 gals B-8850 in 70 bbls fresh water. Pump dn annulus @ 90°F. PU on tbg & set pkr W/ SN @ 3981', CE @ 3986' & EOT @ 3990'. Land tbg W/ 15,000# tension. NU wellhead. Pressure test annulus & pkr to 1500 psi. Holds solid for 1 hour. RDMOSU.

**Daily Cost:** \$0  
**Cumulative Cost:** \$63,480

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**2/4/2011 Day: 7****Conversion**

Rigless on 2/4/2011 - MIT on well - On 1/27/2011 Dennis Ingram with the State of Utah DOGM was contacted concerning the MIT on the above listed well (MB 10-25-8-16). Permission was given at that time to perform the test on 1/31/2011. On 1/31/2011 the csg was pressured up to 1320 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tbg pressure was 400 psig during the test. There was not a State representative available to witness the test. API # 43-013-32682 **Finalized**

**Daily Cost:** \$0  
**Cumulative Cost:** \$88,800

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**Pertinent Files: Go to File List**



GARY R. HERBERT  
Governor

GREGORY S. BELL  
Lieutenant Governor

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
Executive Director

### Division of Oil, Gas and Mining

JOHN R. BAZA  
Division Director

## UNDERGROUND INJECTION CONTROL PERMIT


Cause No. UIC-366

**Operator:** Newfield Production Company  
**Well:** Jonah Federal 12-14-9-16  
**Location:** Section 14, Township 9 South, Range 16 East  
**County:** Duchesne  
**API No.:** 43-013-32682  
**Well Type:** Enhanced Recovery (waterflood)

### Stipulations of Permit Approval

1. Approval for conversion to Injection Well issued on August 10, 2010.
2. Maximum Allowable Injection Pressure: 1,624 psig
3. Maximum Allowable Injection Rate: (restricted by pressure limitation)
4. Injection Interval: Green River Formation (3,850' – 5,800')
5. Any subsequent wells drilled within a ½ mile radius of this well shall have production casing cement brought up to or above the top of the unitized interval for the Greater Monument Butte Unit.

Approved by:

  
John Rogers  
Associate Director

2/14/2011  
Date

JR/MLR/js

cc: Bruce Suchomel, Environmental Protection Agency  
Bureau of Land Management, Vernal  
Eric Sundberg, Newfield Production Company, Denver  
Newfield Production Company, Myton  
Duchesne County  
Well File

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1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114 -5801  
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • [www.ogm.utah.gov](http://www.ogm.utah.gov)





|   |   |  |
|---|---|--|
| <b>STATE OF UTAH</b><br>DEPARTMENT OF NATURAL RESOURCES<br>DIVISION OF OIL, GAS, AND MINING   |   | <b>FORM 9</b>  |
| <b>SUNDRY NOTICES AND REPORTS ON WELLS</b><br><br>Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.  |   | <b>5. LEASE DESIGNATION AND SERIAL NUMBER:</b><br>UTU-096547 |
| <b>1. TYPE OF WELL</b><br>Water Injection Well  |   | <b>6. IF INDIAN, ALLOTTEE OR TRIBE NAME:</b>                 |
| <b>2. NAME OF OPERATOR:</b><br>NEWFIELD PRODUCTION COMPANY  |   | <b>7. UNIT or CA AGREEMENT NAME:</b><br>GMBU (GRRV)          |
| <b>3. ADDRESS OF OPERATOR:</b><br>Rt 3 Box 3630, Myton, UT, 84052   |   | <b>8. WELL NAME and NUMBER:</b><br>JONAH FED 12-14-9-16      |
| <b>4. LOCATION OF WELL</b><br><b>FOOTAGES AT SURFACE:</b><br>1816 FSL 0575 FWL<br><b>QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:</b><br>Qtr/Qtr: NWSW Section: 14 Township: 09.0S Range: 16.0E Meridian: S   |   | <b>9. API NUMBER:</b><br>43013326820000                      |
| <b>PHONE NUMBER:</b><br>435 646-4825 Ext  |   | <b>9. FIELD and POOL or WILDCAT:</b><br>MONUMENT BUTTE       |
| <b>COUNTY:</b><br>DUCHESNE  |   | <b>STATE:</b><br>UTAH  |
| 11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA   |   |  |
| <b>TYPE OF SUBMISSION</b>   | <b>TYPE OF ACTION</b>                                   |  |
| <input type="checkbox"/> NOTICE OF INTENT<br>Approximate date work will start:  | <input type="checkbox"/> ACIDIZE                        |  |
| <input checked="" type="checkbox"/> SUBSEQUENT REPORT<br>Date of Work Completion:<br>12/17/2015   | <input type="checkbox"/> ALTER CASING                   |  |
| <input type="checkbox"/> SPUD REPORT<br>Date of Spud:   | <input type="checkbox"/> CASING REPAIR                  |  |
| <input type="checkbox"/> DRILLING REPORT<br>Report Date:  | <input type="checkbox"/> CHANGE TO PREVIOUS PLANS       |  |
|   | <input type="checkbox"/> CHANGE TUBING                  |  |
|   | <input type="checkbox"/> CHANGE WELL STATUS             |  |
|   | <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS |  |
|   | <input type="checkbox"/> DEEPEN                         |  |
|   | <input type="checkbox"/> FRACTURE TREAT                 |  |
|   | <input type="checkbox"/> OPERATOR CHANGE                |  |
|   | <input type="checkbox"/> PLUG AND ABANDON               |  |
|   | <input type="checkbox"/> PRODUCTION START OR RESUME     |  |
|   | <input type="checkbox"/> RECLAMATION OF WELL SITE       |  |
|   | <input type="checkbox"/> REPERFORATE CURRENT FORMATION  |  |
|   | <input type="checkbox"/> SIDETRACK TO REPAIR WELL       |  |
|   | <input type="checkbox"/> TUBING REPAIR                  |  |
|   | <input type="checkbox"/> VENT OR FLARE                  |  |
|   | <input type="checkbox"/> WATER SHUTOFF                  |  |
|   | <input type="checkbox"/> SI TA STATUS EXTENSION         |  |
|   | <input type="checkbox"/> WILDCAT WELL DETERMINATION     |  |
|   | <input checked="" type="checkbox"/> OTHER               |  |
|   | OTHER: <input type="text" value="5 YR MIT"/>            |  |
| 12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.<br><br><div style="display: flex; justify-content: space-between;"> <div style="width: 70%;"> <p>On 12/12/2015 Amy Doebele with the State of Utah DOGM was contacted concerning the 5 Year MIT on the above listed well. On 12/17/2015 the casing was pressured up to 1085 psig and charted for 30 minutes with no pressure loss. The well was not injecting during the test. The tubing pressure was 1552 psig during the test. There were State representatives available to witness the test - Amy Doebele and Mark Jones.</p> </div> <div style="width: 25%; text-align: center;"> <p><b>Accepted by the<br/>Utah Division of<br/>Oil, Gas and Mining</b></p> <p><b>FOR RECORD ONLY</b></p> <p>December 17, 2015</p> </div> </div> |   |  |
| <b>NAME (PLEASE PRINT)</b><br>Lucy Chavez-Naupoto   | <b>PHONE NUMBER</b><br>435 646-4874                     | <b>TITLE</b><br>Water Services Technician                    |
| <b>SIGNATURE</b><br>N/A   | <b>DATE</b><br>12/17/2015                               |  |

## Mechanical Integrity Test Casing or Annulus Pressure Test

Newfield Production Company  
Rt. 3 Box 3630  
Myton, UT 84052  
435-646-3721

Witness: MARK JONES  
Amy Doebele Date: 12/17/2015 Time: 11:15 (A.M.) P.M.

Test Conducted by: Everett Unruh

Others Present: AUSTIN HARRISON - DAVE CLOWARD

|  |                       |
|--|-----------------------|
| Well: Jonah Federal 12-14-9-16                               | Field: Monument Butte |
| Well Location: NWSW Sec 14 T9S R16E<br>Duchesne County, Utah | API No: 43-013-32682  |

| Time   | Casing Pressure  |
|--------|------------------|
| 0 min  | <u>1090</u> psig |
| 5      | <u>1089</u> psig |
| 10     | <u>1087</u> psig |
| 15     | <u>1086</u> psig |
| 20     | <u>1086</u> psig |
| 25     | <u>1085</u> psig |
| 30 min | <u>1085</u> psig |
| 35     | _____ psig       |
| 40     | _____ psig       |
| 45     | _____ psig       |
| 50     | _____ psig       |
| 55     | _____ psig       |
| 60 min | _____ psig       |

Tubing Pressure: 1552 psig

Result: Pass Fail

Signature of Witness:

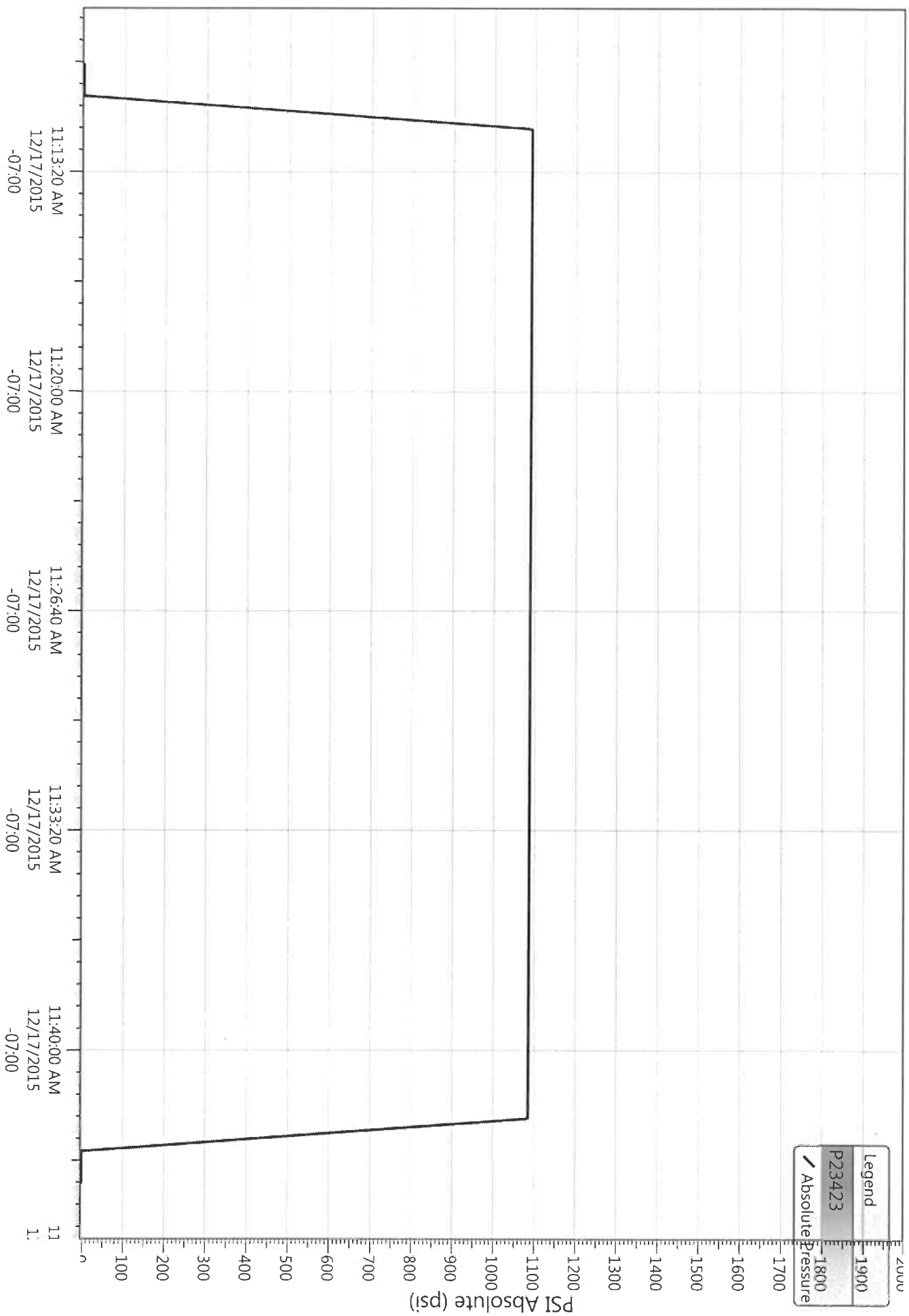
Amy Doebele

Signature of Person Conducting Test:

Everett Unruh

Jonah Federal 12-14-9-16 (12-17-2015, 5 yr. MIT)

12/17/2015 11:09:20 AM



Spud Date: 5-28-05  
Put on Production: 7-12-05  
GL: 5682' KB: 5694'

# Jonah Federal 12-14-9-16

Initial Production: BOPD 118,  
MCFD 7, BWPD 139

## Injection Wellbore Diagram

### SURFACE CASING

CSG SIZE: 8-5 8"  
GRADE: J-55  
WEIGHT: 24#  
LENGTH: 7 jts. (302.88')  
DEPTH LANDED: 314.73' KB  
HOLE SIZE: 12-1 4"  
CEMENT DATA: 160 sxs Class "G" cmt, est 5 bbls cmt to surf.

### PRODUCTION CASING

CSG SIZE: 5-1 2"  
GRADE: J-55  
WEIGHT: 15.5#  
LENGTH: 142 jts. (5830.79')  
DEPTH LANDED: 5844.04' KB  
HOLE SIZE: 7-7 8"  
CEMENT DATA: 300 sxs Prem. Lite II & 400 sxs 50-50 POZ.  
CEMENT TOP AT: 250'

### TUBING

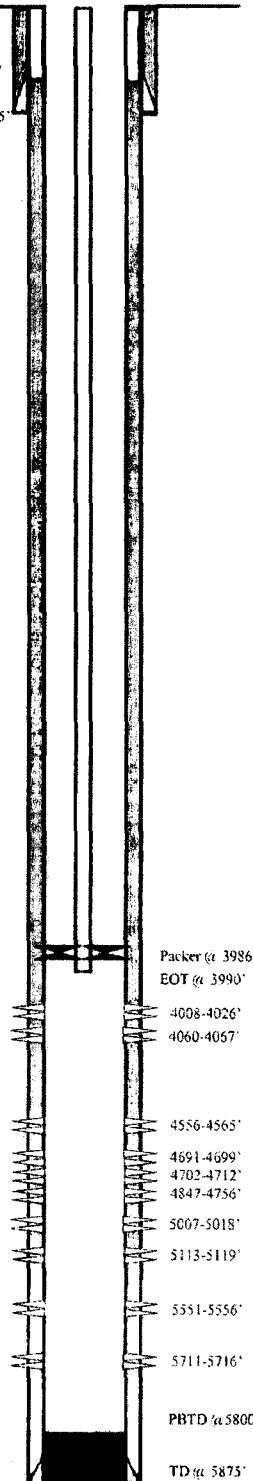
SIZE/GRADE/WT.: 2-7 8" J-55 / 6.5#  
NO. OF JOINTS: 122 jts. (3969.3')  
SEATING NIPPLE: 2-7 8" (1.10')  
SN LANDED AT: 3981.3' KB  
CE @ 3985.69'  
TOTAL STRING LENGTH: EOT @ 3990' KB

### FRAC JOB

|          |            |   |
|----------|------------|---|
| 6-30-05  | 5551-5716' | <b>Frac CP3 &amp; CP5 sand as follows:</b><br>25908#'s 20-40 sand in 306 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1399 psi<br>w avg rate of 23 BPM. ISIP 1775 psi. Calc<br>flush: 5549 gal. Actual flush: 5552 gal.    |
| 7-5-05   | 5007-5119' | <b>Frac A1 &amp; EODC sand as follows:</b><br>45,083#'s 20-40 sand in 409 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1818 psi<br>w avg rate of 24.9 BPM. ISIP 1900 psi. Calc<br>flush: 5005 gal. Actual flush: 4788 gal. |
| 7-6-05   |            | <b>Frac B2</b><br>Decision was made to skip Stage #3.   |
| 7-6-05   | 4691-4712' | <b>Frac C, sand as follows:</b><br>99846#'s 20-40 sand in 706 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1733 psi<br>w avg rate of 25 BPM. ISIP 1750 psi. Calc<br>flush: 4689 gal. Actual flush: 4490 gal.               |
| 7-6-05   | 4556-4565' | <b>Frac D1 sand as follows:</b><br>54,934#'s 20-40 sand in 446 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1773 psi<br>w avg rate of 25 BPM. ISIP 1820 psi. Calc<br>flush: 4554 gal. Actual flush: 4334 gal.              |
| 7-6-05   | 4008-4067' | <b>Frac GB2 &amp; GB4 sand as follows:</b><br>60,730#'s 20-40 sand in 457 bbls Lightning<br>17 frac fluid. Treated @ avg press of 1425 psi<br>w avg rate of 25 BPM. ISIP 1650 psi. Calc<br>flush: 4006 gal. Actual flush: 3901 gal.   |
| 8-8-05   |            | <b>Pump Change.</b> Update tubing and rod detail.   |
| 7-1-08   |            | <b>Pump Change.</b> Updated rod and tbq detail.   |
| 01-26-11 |            | <b>Convert to Injection Well</b>  |
| 01-31-11 |            | <b>Conversion MIT</b> - updated tbq detail  |

### PERFORATION RECORD

|         |            |        |          |
|---------|------------|--------|----------|
| 6-30-05 | 5551-5556' | 4 JSPP | 20 holes |
| 6-30-05 | 5711-5716' | 4 JSPP | 20 holes |
| 7-5-05  | 5007-5018' | 4 JSPP | 44 holes |
| 7-2-05  | 5113-5556' | 4 JSPP | 24 holes |
| 7-6-05  | 4847-4856' | 4 JSPP | 36 holes |
| 7-6-05  | 4691-4699' | 4 JSPP | 32 holes |
| 7-6-05  | 4702-4712' | 4 JSPP | 40 holes |
| 7-6-05  | 4556-4565' | 4 JSPP | 36 holes |
| 7-6-05  | 4060-4067' | 4 JSPP | 28 holes |
| 7-6-05  | 4008-4026' | 4 JSPP | 72 holes |



## NEWFIELD

**Jonah Federal 12-14-9-16**  
1816' FSL & 575' FWL  
NW/SW Section 14-T9S-R16E  
Duchesne Co, Utah  
API #43-013-32682; Lease #UTU-096547